

PREVIEW

CLOSE

Test (CS): Factoring of Quadratic Functions

Question 1a of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 90974)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+2)(x-1), (x-1)(x+2), (1x+2)(1x-1), (1x-1)(1x+2), (x+2)*(x-1), (x-1)*(x+2), (1x+2)*(1x-1), (1x-1)*(1x+2), (x^1+2)(x^1-1), (x^1-1)(x^1+2), (1x^1+2)(1x^1-1), (1x^1-1)(1x^1+2), (x^1+2)*(x^1-1), (x^1-1)*(x^1+2), (1x^1+2)*(1x^1-1), (1x^1-1)*(1x^1+2)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$x^2 + x - 2$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x + 2)(x - 1)$.

Question 1b of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 297819)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+3)(x-1), (x-1)(x+3), (1x+3)(1x-1), (1x-1)(1x+3), (x+3)*(x-1), (x-1)*(x+3), (1x+3)*(1x-1), (1x-1)*(1x+3), (x^1+3)(x^1-1), (x^1-1)(x^1+3), (1x^1+3)(1x^1-1), (1x^1-1)(1x^1+3), (x^1+3)*(x^1-1), (x^1-1)*(x^1+3), (1x^1+3)*(1x^1-1), (1x^1-1)*(1x^1+3)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$x^2 + 2x - 3$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x + 3)(x - 1)$.

Question 1c of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 297820)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+4)(x-1), (x-1)(x+4), (1x+4)(1x-1), (1x-1)(1x+4), (x+4)*(x-1), (x-1)*(x+4), (1x+4)*(1x-1), (1x-1)*(1x+4), (x^1+4)(x^1-1), (x^1-1)(x^1+4), (1x^1+4)(1x^1-1), (1x^1-1)(1x^1+4), (x^1+4)*(x^1-1), (x^1-1)*(x^1+4), (1x^1+4)*(1x^1-1), (1x^1-1)*(1x^1+4)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.*

$$x^2 + 3x - 4$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x + 4)(x - 1)$.

Question 2a of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 485271)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-2)(x+4), (x+4)(x-2), (1x-2)(1x+4), (1x+4)(1x-2), (x-2)*(x+4), (x+4)*(x-2), (1x-2)*(1x+4), (1x+4)*(1x-2), (x^1-2)(x^1+4), (x^1+4)(x^1-2), (1x^1-2)(1x^1+4), (1x^1+4)(1x^1-2), (x^1-2)*(x^1+4), (x^1+4)*(x^1-2), (1x^1-2)*(1x^1+4), (1x^1+4)*(1x^1-2)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.*

$$x^2 + 2x - 8$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: .

Question 2b of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 485272)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-2)(x+3), (x+3)(x-2), (1x-2)(1x+3), (1x+3)(1x-2), (x-2)*(x+3), (x+3)*(x-2), (1x-2)*(1x+3), (1x+3)*(1x-2), (x^1-2)(x^1+3), (x^1+3)(x^1-2), (1x^1-2)(1x^1+3), (1x^1+3)(1x^1-2), (x^1-2)*(x^1+3), (x^1+3)*(x^1-2), (1x^1-2)*(1x^1+3), (1x^1+3)*(1x^1-2)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.*

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer: $(x-2)(x+3)$.

Question 2c of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 485273)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-3)(x+4), (x+4)(x-3), (1x-3)(1x+4), (1x+4)(1x-3), (x-3)*(x+4), (x+4)*(x-3), (1x-3)*(1x+4), (1x+4)*(1x-3), (x^1-3)(x^1+4), (x^1+4)(x^1-3), (1x^1-3)(1x^1+4), (1x^1+4)(1x^1-3), (x^1-3)*(x^1+4), (x^1+4)*(x^1-3), (1x^1-3)*(1x^1+4), (1x^1+4)*(1x^1-3)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$x^2 + 7x - 12$$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer: $(x-2)(x+4)$.

Question 3a of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 90975)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-2)(x-5), (x-5)(x-2), (1x-2)(1x-5), (1x-5)(1x-2), (x-2)*(x-5), (x-5)*(x-2), (1x-2)*(1x-5), (1x-5)*(1x-2), (x^1-2)(x^1-5), (x^1-5)(x^1-2), (1x^1-2)(1x^1-5), (1x^1-5)(1x^1-2), (x^1-2)*(x^1-5), (x^1-5)*(x^1-2), (1x^1-2)*(1x^1-5), (1x^1-5)*(1x^1-2)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$x^2 - 7x + 10$$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x-2)(x-5)$.

Question 3b of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 297821)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-3)(x-5), (x-5)(x-3), (1x-3)(1x-5), (1x-5)(1x-3), (x-3)*(x-5), (x-5)*(x-3), (1x-3)*(1x-5), (1x-5)*(1x-3), (x^1-3)(x^1-5), (x^1-5)(x^1-3), (1x^1-3)(1x^1-5), (1x^1-5)(1x^1-3), (x^1-3)*(x^1-5), (x^1-5)*(x^1-3), (1x^1-3)*(1x^1-5), (1x^1-5)*(1x^1-3)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.*

$$x^2 - 8x + 15$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x - 3)(x - 5)$.

Question 3c of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 297822)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-4)(x-5), (x-5)(x-4), (1x-4)(1x-5), (1x-5)(1x-4), (x-4)*(x-5), (x-5)*(x-4), (1x-4)*(1x-5), (1x-5)*(1x-4), (x^1-4)(x^1-5), (x^1-5)(x^1-4), (1x^1-4)(1x^1-5), (1x^1-5)(1x^1-4), (x^1-4)*(x^1-5), (x^1-5)*(x^1-4), (1x^1-4)*(1x^1-5), (1x^1-5)*(1x^1-4)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.*

$$x^2 - 9x + 20$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x - 4)(x - 5)$.

Question 4a of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 485274)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+3)(x-7), (x-7)(x+3), (1x+3)(1x-7), (1x-7)(1x+3), (x+3)*(x-7), (x-7)*(x+3), (1x+3)*(1x-7), (1x-7)*(1x+3), (x^1+3)(x^1-7), (x^1-7)(x^1+3), (1x^1+3)(1x^1-7), (1x^1-7)(1x^1+3), (x^1+3)*(x^1-7), (x^1-7)*(x^1+3), (1x^1+3)*(1x^1-7), (1x^1-7)*(1x^1+3)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.*

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x - 3)(x - 7)$.

Question 4b of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 485275)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer:

$(x+3)(x-8), (x-8)(x+3), (1x+3)(1x-8), (1x-8)(1x+3), (x+3)*(x-8), (x-8)*(x+3), (1x+3)*(1x-8), (1x-8)*(1x+3), (x^1+3)(x^1-8), (x^1-8)(x^1+3), (1x^1+3)(1x^1-8), (1x^1-8)(1x^1+3), (x^1+3)*(x^1-8), (x^1-8)*(x^1+3), (1x^1+3)*(1x^1-8), (1x^1-8)*(1x^1+3)$

Question:

Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$x^2 - 5x - 14$$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x - 3)(x - 8)$.

Question 4c of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 485276)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer:

$(x+3)(x-9), (x-9)(x+3), (1x+3)(1x-9), (1x-9)(1x+3), (x+3)*(x-9), (x-9)*(x+3), (1x+3)*(1x-9), (1x-9)*(1x+3), (x^1+3)(x^1-9), (x^1-9)(x^1+3), (1x^1+3)(1x^1-9), (1x^1-9)(1x^1+3), (x^1+3)*(x^1-9), (x^1-9)*(x^1+3), (1x^1+3)*(1x^1-9), (1x^1-9)*(1x^1+3)$

Question:

Factor the polynomial expression. Write each factor as a polynomial in descending order.

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: .

Question 5a of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 90976)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+2)(x-7), (x-7)(x+2), (1x+2)(1x-7), (1x-7)(1x+2), (x+2)*(x-7), (x-7)*(x+2), (1x+2)*(1x-7), (1x-7)*(1x+2), (x^1+2)(x^1-7), (x^1-7)(x^1+2), (1x^1+2)(1x^1-7), (1x^1-7)(1x^1+2), (x^1+2)*(x^1-7), (x^1-7)*(x^1+2), (1x^1+2)*(1x^1-7), (1x^1-7)*(1x^1+2)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$x^2 - 5x - 14$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x + 2)(x - 7)$.

Question 5b of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 297823)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+2)(x-6), (x-6)(x+2), (1x+2)(1x-6), (1x-6)(1x+2), (x+2)*(x-6), (x-6)*(x+2), (1x+2)*(1x-6), (1x-6)*(1x+2), (x^1+2)(x^1-6), (x^1-6)(x^1+2), (1x^1+2)(1x^1-6), (1x^1-6)(1x^1+2), (x^1+2)*(x^1-6), (x^1-6)*(x^1+2), (1x^1+2)*(1x^1-6), (1x^1-6)*(1x^1+2)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$x^2 - 4x - 12$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x + 2)(x - 6)$.

Question 5c of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 297824)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+2)(x-8), (x-8)(x+2), (1x+2)(1x-8), (1x-8)(1x+2), (x+2)*(x-8), (x-8)*(x+2), (1x+2)*(1x-8), (1x-8)*(1x+2), (x^1+2)(x^1-8), (x^1-8)(x^1+2), (1x^1+2)(1x^1-8), (1x^1-8)(1x^1+2), (x^1+2)*(x^1-8), (x^1-8)*(x^1+2), (1x^1+2)*(1x^1-8), (1x^1-8)*(1x^1+2)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$x^2 - 6x - 16$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x + 2)(x - 8)$.

Question 6a of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 90978)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+5)(3x+1), (3x+1)(x+5), (3x+1)*(x+5), (x+5)*(3x+1), (3x+1)(1x+5), (1x+5)(3x+1), (3x+1)*(1x+5), (1x+5)*(3x+1), (3x^1+1)(x^1+5), (x^1+5)(3x^1+1), (3x^1+1)*(x^1+5), (x^1+5)*(3x^1+1), (3x^1+1)(1x^1+5), (1x^1+5)(3x^1+1), (3x^1+1)*(1x^1+5), (1x^1+5)*(3x^1+1)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.*

$$3x^2 + 16x + 5$$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x + 5)(3x + 1)$.

Question 6b of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 297827)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+5)(4x+1), (4x+1)(x+5), (4x+1)*(x+5), (x+5)*(4x+1), (4x+1)(1x+5), (1x+5)(4x+1), (4x+1)*(1x+5), (1x+5)*(4x+1), (4x^1+1)(x^1+5), (x^1+5)(4x^1+1), (4x^1+1)*(x^1+5), (x^1+5)*(4x^1+1), (4x^1+1)(1x^1+5), (1x^1+5)(4x^1+1), (4x^1+1)*(1x^1+5), (1x^1+5)*(4x^1+1)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.*

$$4x^2 + 21x + 5$$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x + 5)(4x + 1)$.

Question 6c of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 297828)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+6)(3x+1)$, $(3x+1)(x+6)$, $(3x+1)*(x+6)$, $(x+6)*(3x+1)$, $(3x+1)(1x+6)$, $(1x+6)(3x+1)$, $(3x+1)*(1x+6)$, $(1x+6)*(3x+1)$, $(3x^1+1)(x^1+6)$, $(x^1+6)(3x^1+1)$, $(3x^1+1)*(x^1+6)$, $(x^1+6)*(3x^1+1)$, $(3x^1+1)(1x^1+6)$, $(1x^1+6)(3x^1+1)$, $(3x^1+1)*(1x^1+6)$, $(1x^1+6)*(3x^1+1)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.*

$$3x^2 + 19x + 6$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x + 6)(3x + 1)$.

Question 7a of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 485277)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-4)(x+6)$, $(x+6)(x-4)$, $(1x-4)(1x+6)$, $(1x+6)(1x-4)$, $(x-4)*(x+6)$, $(x+6)*(x-4)$, $(1x-4)*(1x+6)$, $(1x+6)*(1x-4)$, $(x^1-4)(x^1+6)$, $(x^1+6)(x^1-4)$, $(1x^1-4)(1x^1+6)$, $(1x^1+6)(1x^1-4)$, $(x^1-4)*(x^1+6)$, $(x^1+6)*(x^1-4)$, $(1x^1-4)*(1x^1+6)$, $(1x^1+6)*(1x^1-4)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.*

$$x^2 + 2x - 4$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: .

Question 7b of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 485278)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-4)(x+7)$, $(x+7)(x-4)$, $(1x-4)(1x+7)$, $(1x+7)(1x-4)$, $(x-4)*(x+7)$, $(x+7)*(x-4)$, $(1x-4)*(1x+7)$, $(1x+7)*(1x-4)$, $(x^1-4)(x^1+7)$, $(x^1+7)(x^1-4)$, $(1x^1-4)(1x^1+7)$, $(1x^1+7)(1x^1-4)$, $(x^1-4)*(x^1+7)$, $(x^1+7)*(x^1-4)$, $(1x^1-4)*(1x^1+7)$, $(1x^1+7)*(1x^1-4)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.*

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x - 4)(x + 7)$.

Question 7c of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 485279)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-4)(x+8), (x+8)(x-4), (1x-4)(1x+8), (1x+8)(1x-4), (x-4)*(x+8), (x+8)*(x-4), (1x-4)*(1x+8), (1x+8)*(1x-4), (x^1-4)(x^1+8), (x^1+8)(x^1-4), (1x^1-4)(1x^1+8), (1x^1+8)(1x^1-4), (x^1-4)*(x^1+8), (x^1+8)*(x^1-4), (1x^1-4)*(1x^1+8), (1x^1+8)*(1x^1-4)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$x^2 + 4x - 32$$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x - 4)(x + 8)$.

Question 8a of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 90979)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(2x+3)(5x-4), (5x-4)(2x+3), (2x+3)*(5x-4), (5x-4)*(2x+3), (2x^1+3)(5x^1-4), (5x^1-4)(2x^1+3), (2x^1+3)*(5x^1-4), (5x^1-4)*(2x^1+3)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$10x^2 + 7x - 12$$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(2x + 3)(5x - 4)$.

Question 8b of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 297829)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(3x+3)(5x-4)$, $(5x-4)(3x+3)$, $(3x+3)*(5x-4)$, $(5x-4)*(3x+3)$, $(3x^1+3)(5x^1-4)$, $(5x^1-4)(3x^1+3)$, $(3x^1+3)*(5x^1-4)$, $(5x^1-4)*(3x^1+3)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$15x^2 + 3x - 12$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(3x + 3)(5x - 4)$.

Question 8c of 25 (3 Factoring a Trinomial's Leading Coefficient and Constant 297830)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(2x+3)(6x-4)$, $(6x-4)(2x+3)$, $(2x+3)*(6x-4)$, $(6x-4)*(2x+3)$, $(2x^1+3)(6x^1-4)$, $(6x^1-4)(2x^1+3)$, $(2x^1+3)*(6x^1-4)$, $(6x^1-4)*(2x^1+3)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$12x^2 + 10x - 12$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(2x + 3)(6x - 4)$.

Question 9a of 25 (3 Factoring A Difference of Two Squares 90980)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+5)(x-5)$, $(x-5)(x+5)$, $(1x+5)(1x-5)$, $(1x-5)(1x+5)$, $(x+5)*(x-5)$, $(x-5)*(x+5)$, $(1x+5)*(1x-5)$, $(1x-5)*(1x+5)$, $(x^1+5)(x^1-5)$, $(x^1-5)(x^1+5)$, $(1x^1+5)(1x^1-5)$, $(1x^1-5)(1x^1+5)$, $(x^1+5)*(x^1-5)$, $(x^1-5)*(x^1+5)$, $(1x^1+5)*(1x^1-5)$, $(1x^1-5)*(1x^1+5)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$x^2 - 25$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x + 5)(x - 5)$.

Question 9b of 25 (3 Factoring A Difference of Two Squares 297831)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer:

$(x+6)(x-6), (x-6)(x+6), (1x+6)(1x-6), (1x-6)(1x+6), (x+6)*(x-6), (x-6)*(x+6), (1x+6)*(1x-6), (1x-6)*(1x+6), (x^1+6)(x^1-6), (x^1-6)(x^1+6), (1x^1+6)(1x^1-6), (1x^1-6)(1x^1+6), (x^1+6)*(x^1-6), (x^1-6)*(x^1+6), (1x^1+6)*(1x^1-6), (1x^1-6)*(1x^1+6)$

Question:

Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$x^2 - 36$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x + 6)(x - 6)$.

Question 9c of 25 (3 Factoring A Difference of Two Squares 297832)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer:

$(x+4)(x-4), (x-4)(x+4), (1x+4)(1x-4), (1x-4)(1x+4), (x+4)*(x-4), (x-4)*(x+4), (1x+4)*(1x-4), (1x-4)*(1x+4), (x^1+4)(x^1-4), (x^1-4)(x^1+4), (1x^1+4)(1x^1-4), (1x^1-4)(1x^1+4), (x^1+4)*(x^1-4), (x^1-4)*(x^1+4), (1x^1+4)*(1x^1-4), (1x^1-4)*(1x^1+4)$

Question:

Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$x^2 - 16$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x + 4)(x - 4)$.

Question 10a of 25 (3 Factoring A Difference of Two Squares 485280)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+9)(x-9), (x-9)(x+9), (1x+9)(1x-9), (1x-9)(1x+9), (x+9)*(x-9), (x-9)*(x+9), (1x+9)*(1x-9), (1x-9)*(1x+9), (x^1+9)(x^1-9), (x^1-9)(x^1+9), (1x^1+9)(1x^1-9), (1x^1-9)(1x^1+9), (x^1+9)*(x^1-9), (x^1-9)*(x^1+9), (1x^1+9)*(1x^1-9), (1x^1-9)*(1x^1+9)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$x^2 - 81$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x + 9)(x - 9)$.

Question 10b of 25 (3 Factoring A Difference of Two Squares 485281)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+3)(x-3), (x-3)(x+3), (1x+3)(1x-3), (1x-3)(1x+3), (x+3)*(x-3), (x-3)*(x+3), (1x+3)*(1x-3), (1x-3)*(1x+3), (x^1+3)(x^1-3), (x^1-3)(x^1+3), (1x^1+3)(1x^1-3), (1x^1-3)(1x^1+3), (x^1+3)*(x^1-3), (x^1-3)*(x^1+3), (1x^1+3)*(1x^1-3), (1x^1-3)*(1x^1+3)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

$$x^2 - 9$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: .

Question 10c of 25 (3 Factoring A Difference of Two Squares 485282)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+7)(x-7), (x-7)(x+7), (1x+7)(1x-7), (1x-7)(1x+7), (x+7)*(x-7), (x-7)*(x+7), (1x+7)*(1x-7), (1x-7)*(1x+7), (x^1+7)(x^1-7), (x^1-7)(x^1+7), (1x^1+7)(1x^1-7), (1x^1-7)(1x^1+7), (x^1+7)*(x^1-7), (x^1-7)*(x^1+7), (1x^1+7)*(1x^1-7), (1x^1-7)*(1x^1+7)$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order.

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x - 7)(x - 7)$.

Question 11a of 25 (3 Factoring a Perfect Square Trinomial 90981)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+4)(x+4)$, $(x+4)^2$, $(1x+4)^2$, $(1x+4)(1x+4)$, $(x^1+4)^2$, $(x^1+4)(x^1+4)$, $(1x^1+4)^2$, $(1x^1+4)(1x^1+4)$, $(x+4)*(x+4)$, $(1x+4)*(1x+4)$, $(x^1+4)*(x^1+4)$, $(1x^1+4)*(1x^1+4)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$x^2 + 8x + 16$$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x + 4)(x + 4)$.

Question 11b of 25 (3 Factoring a Perfect Square Trinomial 297833)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+5)(x+5)$, $(x+5)^2$, $(1x+5)^2$, $(1x+5)(1x+5)$, $(x^1+5)^2$, $(x^1+5)(x^1+5)$, $(1x^1+5)^2$, $(1x^1+5)(1x^1+5)$, $(x+5)*(x+5)$, $(1x+5)*(1x+5)$, $(x^1+5)*(x^1+5)$, $(1x^1+5)*(1x^1+5)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$x^2 + 10x + 25$$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x + 5)(x + 5)$.

Question 11c of 25 (3 Factoring a Perfect Square Trinomial 297834)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x+6)(x+6), (x+6)^2, (1x+6)^2, (1x+6)(1x+6), (x^1+6)^2, (x^1+6)(x^1+6), (1x^1+6)^2, (1x^1+6)(1x^1+6), (x+6)*(x+6), (1x+6)*(1x+6), (x^1+6)*(x^1+6), (1x^1+6)*(1x^1+6)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$x^2 + 12x + 36$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x + 6)(x + 6)$.

Question 12a of 25 (3 Factoring A Sum Or Difference of Cubes 90982)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-4)(x^2+4x+16), (x^2+4x+16)(x-4), (x-4)*(x^2+4x+16), (x^2+4x+16)*(x-4), (x^1-4)(x^2+4x^1+16), (x^2+4x^1+16)(x^1-4), (x^1-4)*(x^2+4x^1+16), (x^2+4x^1+16)*(x^1-4), (1x-4)(1x^2+4x+16), (1x^2+4x+16)(1x-4), (1x-4)*(1x^2+4x+16), (1x^2+4x+16)*(1x-4), (1x^1-4)(1x^2+4x^1+16), (1x^2+4x^1+16)(1x^1-4), (1x^1-4)*(1x^2+4x^1+16), (1x^2+4x^1+16)*(1x^1-4)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$x^3 - 64$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x - 4)(x^2 + 4x + 16)$.

Question 12b of 25 (3 Factoring A Sum Or Difference of Cubes 297835)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-3)(x^2+3x+9)$, $(x^2+3x+9)(x-3)$, $(x-3)^*(x^2+3x+9)$, $(x^2+3x+9)^*(x-3)$, $(x^{1-3})(x^2+3x^{1+9})$, $(x^2+3x^{1+9})(x^{1-3})$, $(x^{1-3})^*(x^2+3x^{1+9})$, $(x^2+3x^{1+9})^*(x^{1-3})$, $(1x-3)(1x^2+3x+9)$, $(1x^2+3x+9)(1x-3)$, $(1x-3)^*(1x^2+3x+9)$, $(1x^2+3x+9)^*(1x-3)$, $(1x^{1-3})(1x^2+3x^{1+9})$, $(1x^2+3x^{1+9})(1x^{1-3})$, $(1x^{1-3})^*(1x^2+3x^{1+9})$, $(1x^2+3x^{1+9})^*(1x^{1-3})$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$x^3 - 27$$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x - 3)(x^2 + 3x + 9)$.

Question 12c of 25 (3 Factoring A Sum Or Difference of Cubes 297836)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-5)(x^2+5x+25)$, $(x^2+5x+25)(x-5)$, $(x-5)^*(x^2+5x+25)$, $(x^2+5x+25)^*(x-5)$, $(x^{1-5})(x^2+5x^{1+25})$, $(x^2+5x^{1+25})(x^{1-5})$, $(x^{1-5})^*(x^2+5x^{1+25})$, $(x^2+5x^{1+25})^*(x^{1-5})$, $(1x-5)(1x^2+5x+25)$, $(1x^2+5x+25)(1x-5)$, $(1x-5)^*(1x^2+5x+25)$, $(1x^2+5x+25)^*(1x-5)$, $(1x^{1-5})(1x^2+5x^{1+25})$, $(1x^2+5x^{1+25})(1x^{1-5})$, $(1x^{1-5})^*(1x^2+5x^{1+25})$, $(1x^2+5x^{1+25})^*(1x^{1-5})$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$x^3 - 125$$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x - 5)(x^2 + 5x + 25)$.

Question 13a of 25 (3 Factoring A Sum Or Difference of Cubes 485283)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-2)(x^2+2x+4), (x^2+2x+4)(x-2), (x-2)*(x^2+2x+4), (x^2+2x+4)*(x-2), (x^{1-2})(x^2+2x^{1+4}), (x^2+2x^{1+4})(x^{1-2}), (x^{1-2})*(x^2+2x^{1+4}), (x^2+2x^{1+4})*(x^{1-2}), (1x-2)(1x^2+2x+4), (1x^2+2x+4)(1x-2), (1x-2)*(1x^2+2x+4), (1x^2+2x+4)*(1x-2), (1x^{1-2})(1x^2+2x^{1+4}), (1x^2+2x^{1+4})(1x^{1-2}), (1x^{1-2})*(1x^2+2x^{1+4}), (1x^2+2x^{1+4})*(1x^{1-2})$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order. Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

 - =

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x-2)(x^2+2x+4)$.

Question 13b of 25 (3 Factoring A Sum Or Difference of Cubes 485284)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-6)(x^2+6x+36), (x^2+6x+36)(x-6), (x-6)*(x^2+6x+36), (x^2+6x+36)*(x-6), (x^{1-6})(x^2+6x^{1+36}), (x^2+6x^{1+36})(x^{1-6}), (x^{1-6})*(x^2+6x^{1+36}), (x^2+6x^{1+36})*(x^{1-6}), (1x-6)(1x^2+6x+36), (1x^2+6x+36)(1x-6), (1x-6)*(1x^2+6x+36), (1x^2+6x+36)*(1x-6), (1x^{1-6})(1x^2+6x^{1+36}), (1x^2+6x^{1+36})(1x^{1-6}), (1x^{1-6})*(1x^2+6x^{1+36}), (1x^2+6x^{1+36})*(1x^{1-6})$

Question: Factor the polynomial expression. Write each factor as a polynomial in descending order. Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: .

Question 13c of 25 (3 Factoring A Sum Or Difference of Cubes 485285)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-7)(x^2+7x+49), (x^2+7x+49)(x-7), (x-7)^*(x^2+7x+49), (x^2+7x+49)^*(x-7), (x^1-7)(x^2+7x^1+49), (x^2+7x^1+49)(x^1-7), (x^1-7)^*(x^2+7x^1+49), (x^2+7x^1+49)^*(x^1-7), (1x-7)(1x^2+7x+49), (1x^2+7x+49)(1x-7), (1x-7)^*(1x^2+7x+49), (1x^2+7x+49)^*(1x-7), (1x^1-7)(1x^2+7x^1+49), (1x^2+7x^1+49)(1x^1-7), (1x^1-7)^*(1x^2+7x^1+49), (1x^2+7x^1+49)^*(1x^1-7)$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$x^3 - 343$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: $(x-7)(x^2+7x+49)$.

Question 14a of 25 (3 Solving Quadratic Equations 90983)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 3

Question: Which of the following are solutions to the equation below?

Check all that apply.

$$x^2 + 2x - 8 = 0$$

Correct Answers:

	Choice
A.	8
*B.	2
C.	-1
*D.	-4
E.	1
F.	6

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answers are: 2 and -4.

Question 14b of 25 (3 Solving Quadratic Equations 297837)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 3

Question: Which of the following are solutions to the equation below?

Check all that apply.

$$x^2 + 7x - 8 = 0$$

Correct Answers:

	Choice
*A.	-8
B.	2
C.	-1
D.	-4
*E.	1
F.	6

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: -8 and 1.

Question 14c of 25 (3 Solving Quadratic Equations 297838)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 3

Question: Which of the following are solutions to the equation below?

Check all that apply.

$$x^2 + 8x - 9 = 0$$

Correct Answers:

	Choice
A.	8
B.	5
C.	-1
*D.	-9
*E.	1
F.	6

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: -9 and 1.

Question 15a of 25 (3 Solving Quadratic Equations 90984)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 3

Question: Which of the following are solutions to the equation below?

Check all that apply.

$$2x^2 - 4x - 3 = x$$

Correct Answers:

	Choice
A.	2
B.	1
*C.	3
D.	-4
E.	-3
*F.	$-\frac{1}{2}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: 3 and $-\frac{1}{2}$.

Question 15b of 25 (3 Solving Quadratic Equations 297841)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 3

Question: Which of the following are solutions to the equation below?

Check all that apply.

$$2x^2 - 2x - 2 = x$$

Correct Answers:

	Choice
*A.	2
B.	1
C.	3
D.	-4
E.	-3
*F.	-

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: 2 and $-\frac{1}{2}$.

Question 15c of 25 (3 Solving Quadratic Equations 297842)

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 3
Question: Which of the following are solutions to the equation below?
Check all that apply.
 $3x^2 - 7x - 3 = x$

Correct Answers:

	Choice
A.	2
B.	1
*C.	3
D.	-4
E.	-3
*F.	$-\frac{1}{2}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: 3 and $-\frac{1}{2}$.

Question 16a of 25 (3 Solving Quadratic Equations 485292)

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 3
Question: Which of the following are solutions to the equation below?
Check all that apply.
 $2x^2 + 3x - 12 = x$

Correct Answers:

	Choice
*A.	-3
B.	3
C.	-4
*D.	2

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: -3 and 2.

Question 16b of 25 (3 Solving Quadratic Equations 485293)

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 3
Question: Which of the following are solutions to the equation below?
Check all that apply.
 $2x^2 + 5x - 30 = x$

Correct Answers:

	Choice
*A.	3
B.	4
C.	-4
*D.	-5

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: 3 and -5.

Question 16c of 25 (3 Solving Quadratic Equations 485294)

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 3
Question: Which of the following are solutions to the equation below?
Check all that apply.
 $3x^2 + 10x - 30 = x$

Correct Answers:

	Choice
*A.	2
B.	-2
C.	3
*D.	-5

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: 2 and -5.

Question 17a of 25 (3 Solving Quadratic Equations 90985)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 3

Question: Which of the following are solutions to the equation below?

Check all that apply.

$$x^2 + 6x + 9 = 2$$

Correct Answers:

	Choice
*A.	$\sqrt{-2} - 3$
B.	3
C.	1
D.	$\sqrt{-2} + 3$
*E.	$-\sqrt{-2} - 3$
F.	2

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $\sqrt{-2} - 3$ and $-\sqrt{-2} - 3$.

Question 17b of 25 (3 Solving Quadratic Equations 297843)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 3

Question: Which of the following are solutions to the equation below?

Check all that apply.

$$x^2 + 8x + 16 = 2$$

Correct Answers:

	Choice
A.	1
B.	4
*C.	- 4
*D.	- - 4
E.	+ 4
F.	2

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $\sqrt{2} - 4$ and $-\sqrt{2} - 4$.

Question 17c of 25 (3 Solving Quadratic Equations 297844)

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 3
Question: Which of the following are solutions to the equation below?
Check all that apply.
 $x^2 + 10x + 25 = 2$

Correct Answers:

	Choice
A.	1
B.	5
C.	$\sqrt{2} + 5$
*D.	$-\sqrt{2} - 5$
*E.	$\sqrt{2} - 5$
F.	2

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $-\sqrt{2} - 5$ and $\sqrt{2} - 5$.

Question 18a of 25 (3 Graphing Quadratic Equations 148584)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 3
Question: Which of the following combinations represents the vertex and two x-intercepts of the function given below?

$$y = x^2 - 2x - 24$$

	Choice	Feedback
*A.	Vertex: (1,-25); Intercepts: $x = 6, -4$	Correct!
B.	Vertex: (7,5); Intercepts: $x = 6, 8$	
C.	Vertex: (-1,-21); Intercepts: $x = 6, 4$	
D.	Vertex: (0,0); Intercepts: $x = -4, 6$	

Global Incorrect Feedback
The correct answer is: Vertex: (1,-25); Intercepts: $x = 6, -4$.

Question 18b of 25 (3 Graphing Quadratic Equations 245898)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 3

Question: Which of the following combinations represents the vertex and two x-intercepts of the function given below?

$$y = x^2 - 2x - 35$$

	Choice	Feedback
A.	Vertex: (1,-25); Intercepts: $x = 6, -4$	
B.	Vertex: (7,5); Intercepts: $x = 7, 8$	
*C.	Vertex: (1,-36); Intercepts: $x = 7, -5$	Correct!
D.	Vertex: (0,0); Intercepts: $x = -4, -5$	

Global Incorrect Feedback

The correct answer is:
Vertex: (1,-36); Intercepts: $x = 7, -5$.

Question 18c of 25 (3 Graphing Quadratic Equations 245899)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 3

Question: Which of the following combinations represents the vertex and two x-intercepts of the function given below?

$$y = x^2 - 2x - 48$$

	Choice	Feedback
A.	Vertex: (1,-40); Intercepts: $x = 6, 7$	
*B.	Vertex: (1,-49); Intercepts: $x = 8, -6$	Correct!
C.	Vertex: (-1,-21); Intercepts: $x = 6, 4$	
D.	Vertex: (0,0); Intercepts: $x = -4, 6$	

Global Incorrect Feedback

The correct answer is:
Vertex: (1,-49); Intercepts: $x = 8, -6$.

Question 19a of 25 (3 Factoring a Perfect Square Trinomial 485286)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-3)(x-3), (x-3)^2, (x^1-3)(x^1-3), (x^1-3)^2, (x-3)*(x-3), (x-3)^2, (x^1-3)*(x^1-3), (x^1-3)^2, (x-3)(x-3), (x-3)^2, (x^1-3)(x^1-3), (x^1-3)^2, (x-3)*(x-3), (x-3)^2, (x^1-3)*(x^1-3), (x^1-3)^2$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$x^2 - 6x + 9$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x - 3)(x - 3)$.

Question 19b of 25 (3 Factoring a Perfect Square Trinomial 485287)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-5)(x-5), (x-5)^2, (x^1-5)(x^1-5), (x^1-5)^2, (x-5)*(x-5), (x-5)^2, (x^1-5)*(x^1-5), (x^1-5)^2, (x-5)(x-5), (x-5)^2, (x^1-5)(x^1-5), (x^1-5)^2, (x-5)*(x-5), (x-5)^2, (x^1-5)*(x^1-5), (x^1-5)^2$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$x^2 - 10x + 25$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x - 5)(x - 5)$.

Question 19c of 25 (3 Factoring a Perfect Square Trinomial 485288)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-4)(x-4), (x-4)^2, (x^1-4)(x^1-4), (x^1-4)^2, (x-4)*(x-4), (x-4)^2, (x^1-4)*(x^1-4), (x^1-4)^2, (x-4)(x-4), (x-4)^2, (x^1-4)(x^1-4), (x^1-4)^2, (x-4)*(x-4), (x-4)^2, (x^1-4)*(x^1-4), (x^1-4)^2$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$x^2 - 16x + 64$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x - 4)(x - 4)$.

Question 20a of 25 (3 Factoring a Perfect Square Trinomial 485453)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-2)(x-2)$, $(x-2)^2$, $(x^{1-2})(x^{1-2})$, $(x^{1-2})^2$, $(x-2)*(x-2)$, $(x-2)^2$, $(x^{1-2})*^{(x^{1-2})}$, $(x^{1-2})^2$, $(x-2)(x-2)$, $(x-2)^2$, $(x^{1-2})(x^{1-2})$, $(x^{1-2})^2$, $(x-2)*(x-2)$, $(x-2)^2$, $(x^{1-2})*(x^{1-2})$, $(x^{1-2})^2$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$x^2 - 4x + 4$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x - 2)(x - 2)$.

Question 20b of 25 (3 Factoring a Perfect Square Trinomial 485454)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-7)(x-7)$, $(x-7)^2$, $(x^{1-7})(x^{1-7})$, $(x^{1-7})^2$, $(x-7)*(x-7)$, $(x-7)^2$, $(x^{1-7})*^{(x^{1-7})}$, $(x^{1-7})^2$, $(x-7)(x-7)$, $(x-7)^2$, $(x^{1-7})(x^{1-7})$, $(x^{1-7})^2$, $(x-7)*(x-7)$, $(x-7)^2$, $(x^{1-7})*(x^{1-7})$, $(x^{1-7})^2$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$x^2 - 14x + 49$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x - 7)(x - 7)$.

Question 20c of 25 (3 Factoring a Perfect Square Trinomial 485455)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(x-5)(x-5)$, $(x-5)^2$, $(x^{1-5})(x^{1-5})$, $(x^{1-5})^2$, $(x-5)*(x-5)$, $(x-5)^2$, $(x^{1-5})*^{(x^{1-5})}$, $(x^{1-5})^2$, $(x-5)(x-5)$, $(x-5)^2$, $(x^{1-5})(x^{1-5})$, $(x^{1-5})^2$, $(x-5)*(x-5)$, $(x-5)^2$, $(x^{1-5})*(x^{1-5})$, $(x^{1-5})^2$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$x^2 - 10x + 25$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(x - 5)(x - 5)$.

Question 21a of 25 (3 Factoring a Perfect Square Trinomial 485456)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(2x+5)(2x+5)$, $(2x+5)^2$, $(2x^1+5)(2x^1+5)$, $(2x^1+5)^2$, $(2x+5)*(2x+5)$, $(2x+5)^2$, $(2x^1+5)*(2x^1+5)$, $(2x^1+5)^2$, $(2x+5)(2x+5)$, $(2x+5)^2$, $(2x^1+5)(2x^1+5)$, $(2x^1+5)^2$, $(2x+5)*(2x+5)$, $(2x+5)^2$, $(2x^1+5)*(2x^1+5)$, $(2x^1+5)^2$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$4x^2 + 20x + 25$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(2x + 5)(2x + 5)$.

Question 21b of 25 (3 Factoring a Perfect Square Trinomial 485457)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(2x+6)(2x+6)$, $(2x+6)^2$, $(2x^1+6)(2x^1+6)$, $(2x^1+6)^2$, $(2x+6)*(2x+6)$, $(2x+6)^2$, $(2x^1+6)*(2x^1+6)$, $(2x^1+6)^2$, $(2x+6)(2x+6)$, $(2x+6)^2$, $(2x^1+6)(2x^1+6)$, $(2x^1+6)^2$, $(2x+6)*(2x+6)$, $(2x+6)^2$, $(2x^1+6)*(2x^1+6)$, $(2x^1+6)^2$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$4x^2 + 24x + 36$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(2x + 6)(2x + 6)$.

Question 21c of 25 (3 Factoring a Perfect Square Trinomial 485458)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(2x+7)(2x+7)$, $(2x+7)^2$, $(2x^1+7)(2x^1+7)$, $(2x^1+7)^2$, $(2x+7)*(2x+7)$, $(2x+7)^2$, $(2x^1+7)*(2x^1+7)$, $(2x^1+7)^2$, $(2x+7)(2x+7)$, $(2x+7)^2$, $(2x^1+7)(2x^1+7)$, $(2x^1+7)^2$, $(2x+7)*(2x+7)$, $(2x+7)^2$, $(2x^1+7)*(2x^1+7)$, $(2x^1+7)^2$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$4x^2 + 28x + 49$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(2x + 7)(2x + 7)$.

Question 22a of 25 (3 Factoring a Perfect Square Trinomial 485289)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(3x+4)(3x+4)$, $(3x+4)^2$, $(3x^1+4)(3x^1+4)$, $(3x^1+4)^2$, $(3x+4)*(3x+4)$, $(3x+4)^2$, $(3x^1+4)*(3x^1+4)$, $(3x^1+4)^2$, $(3x+4)(3x+4)$, $(3x+4)^2$, $(3x^1+4)(3x^1+4)$, $(3x^1+4)^2$, $(3x+4)*(3x+4)$, $(3x+4)^2$, $(3x^1+4)*(3x^1+4)$, $(3x^1+4)^2$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$9x^2 + 24x + 16$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(3x + 4)(3x + 4)$.

Question 22b of 25 (3 Factoring a Perfect Square Trinomial 485290)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(3x+6)(3x+6)$, $(3x+6)^2$, $(3x^1+6)(3x^1+6)$, $(3x^1+6)^2$, $(3x+6)*(3x+6)$, $(3x+6)^2$, $(3x^1+6)*(3x^1+6)$, $(3x^1+6)^2$, $(3x+6)(3x+6)$, $(3x+6)^2$, $(3x^1+6)(3x^1+6)$, $(3x^1+6)^2$, $(3x+6)*(3x+6)$, $(3x+6)^2$, $(3x^1+6)*(3x^1+6)$, $(3x^1+6)^2$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$9x^2 + 36x + 36$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(3x + 6)(3x + 6)$.

Question 22c of 25 (3 Factoring a Perfect Square Trinomial 485291)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 3

Is Case Sensitive: false

Correct Answer: $(3x+7)(3x+7)$, $(3x+7)^2$, $(3x^1+7)(3x^1+7)$, $(3x^1+7)^2$, $(3x+7)*(3x+7)$, $(3x+7)^2$, $(3x^1+7)*(3x^1+7)$, $(3x^1+7)^2$, $(3x+7)(3x+7)$, $(3x+7)^2$, $(3x^1+7)(3x^1+7)$, $(3x^1+7)^2$, $(3x+7)*(3x+7)$, $(3x+7)^2$, $(3x^1+7)*(3x^1+7)$, $(3x^1+7)^2$

Question: Factor the polynomial expression. *Write each factor as a polynomial in descending order.* Enter exponents using the caret (^). For example, you would enter x^2 as x^2 .

$$9x^2 + 42x + 49$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: $(3x + 7)(3x + 7)$.

Question 23a of 25 (3 Using The Quadratic Formula to Solve Quadratic Equations 90989)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 3

Question: Use the quadratic formula to find the solution to the quadratic equation in the box below.

	Choice	Feedback
A.	Solution A	
B.	Solution B	
C.	Solution C	
*D.	Solution D	Correct!
E.	Solution E	
F.	Solution F	

Global Incorrect Feedback
The correct answer is: Solution D.

Question 23b of 25 (3 Using The Quadratic Formula to Solve Quadratic Equations 297851)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 3

Question: Use the quadratic formula to find the solutions to the quadratic equation in the box below.

$x^2 - 2x - 5 = 0$

A. $\frac{3 \pm \sqrt{15}}{4}$

B. $\frac{3 \pm \sqrt{5}}{2}$

C. $\frac{10 \pm \sqrt{40}}{3}$

D. $\frac{2 \pm \sqrt{24}}{2}$

E. $\frac{1 \pm \sqrt{35}}{2}$

F. $\frac{5 \pm \sqrt{10}}{3}$

	Choice	Feedback
A.	Solution A	
B.	Solution B	
C.	Solution C	
*D.	Solution D	
E.	Solution E	
F.	Solution F	

Global Incorrect Feedback
The correct answer is: Solution D.

Question 23c of 25 (3 Using The Quadratic Formula to Solve Quadratic Equations 297852)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 3

Question: Use the quadratic formula to find the solutions to the quadratic equation in the box below.

$$x^2 - 2x - 5 = 0$$

A. $\frac{3 \pm \sqrt{15}}{4}$

B. $\frac{3 \pm \sqrt{5}}{2}$

C. $\frac{10 \pm \sqrt{40}}{3}$

D. $\frac{2 \pm \sqrt{24}}{2}$

E. $\frac{1 \pm \sqrt{35}}{2}$

F. $\frac{5 \pm \sqrt{10}}{3}$

	Choice	Feedback
A.	Solution A	
B.	Solution B	
C.	Solution C	
*D.	Solution D	
E.	Solution E	
F.	Solution F	

Global Incorrect Feedback
The correct answer is: Solution D.

Question 24a of 25 (3 Using The Quadratic Formula to Solve Quadratic Equations 90990)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 3

Question: Use the quadratic formula to find the solution to the quadratic equation in the box below.

	Choice	Feedback
A.	Solution A	
*B.	Solution B	Correct!
C.	Solution C	
D.	Solution D	
E.	Solution E	
F.	Solution F	

Global Incorrect Feedback
The correct answer is: Solution B.

Question 24b of 25 (3 Using The Quadratic Formula to Solve Quadratic Equations 297853)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 3

Question: Use the quadratic formula to find the solutions to the quadratic equation in the box below.

$x^2 - 3x + 1 = 0$

A. $\frac{3 \pm \sqrt{15}}{4}$

B. $\frac{3 \pm \sqrt{5}}{2}$

C. $\frac{10 \pm \sqrt{40}}{3}$

D. $\frac{2 \pm \sqrt{24}}{2}$

E. $\frac{1 \pm \sqrt{35}}{2}$

F. $\frac{5 \pm \sqrt{10}}{3}$

	Choice	Feedback
A.	Solution A	
*B.	Solution B	
C.	Solution C	
D.	Solution D	
E.	Solution E	
F.	Solution F	

Global Incorrect Feedback
The correct answer is: Solution B.

Question 24c of 25 (3 Using The Quadratic Formula to Solve Quadratic Equations 297854)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 3

Question: Use the quadratic formula to find the solutions to the quadratic equation in the box below.

$$x^2 - 3x + 1 = 0$$

A. $\frac{3 \pm \sqrt{15}}{4}$

B. $\frac{3 \pm \sqrt{5}}{2}$

C. $\frac{10 \pm \sqrt{40}}{3}$

D. $\frac{2 \pm \sqrt{24}}{2}$

E. $\frac{1 \pm \sqrt{35}}{2}$

F. $\frac{5 \pm \sqrt{10}}{3}$

	Choice	Feedback
A.	Solution A	
*B.	Solution B	
C.	Solution C	
D.	Solution D	
E.	Solution E	
F.	Solution F	

Global Incorrect Feedback
The correct answer is: Solution B.

Question 25a of 25 (3 Using The Quadratic Formula to Solve Quadratic Equations 90991)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 3

Question: Use the quadratic formula to find the solution to the quadratic equation in the box below.

	Choice	Feedback
A.	Solution A	
B.	Solution B	
C.	Solution C	
D.	Solution D	
E.	Solution E	
*F.	Solution F	Correct!

Global Incorrect Feedback
The correct answer is: Solution F.

Question 25b of 25 (3 Using The Quadratic Formula to Solve Quadratic Equations 297855)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 3

Question: Use the quadratic formula to find the solutions to the quadratic equation in the box below.

$$3x^2 - 10x + 5 = 0$$

A. $\frac{3 \pm \sqrt{15}}{4}$

B. $\frac{3 \pm \sqrt{5}}{2}$

C. $\frac{10 \pm \sqrt{40}}{3}$

D. $\frac{2 \pm \sqrt{24}}{2}$

E. $\frac{1 \pm \sqrt{35}}{2}$

F. $\frac{5 \pm \sqrt{10}}{3}$

	Choice	Feedback
A.	Solution A	
B.	Solution B	
C.	Solution C	
D.	Solution D	
E.	Solution E	
*F.	Solution F	

Global Incorrect Feedback
The correct answer is: Solution F.

Question 25c of 25 (3 Using The Quadratic Formula to Solve Quadratic Equations 297856)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 3

Question: Use the quadratic formula to find the solutions to the quadratic equation in the box below.

$$3x^2 - 10x + 5 = 0$$

A. $\frac{3 \pm \sqrt{15}}{4}$

B. $\frac{3 \pm \sqrt{5}}{2}$

C. $\frac{10 \pm \sqrt{40}}{3}$

D. $\frac{2 \pm \sqrt{24}}{2}$

E. $\frac{1 \pm \sqrt{35}}{2}$

F. $\frac{5 \pm \sqrt{10}}{3}$

	Choice	Feedback
A.	Solution A	
B.	Solution B	
C.	Solution C	
D.	Solution D	
E.	Solution E	
*F.	Solution F	

Global Incorrect Feedback
The correct answer is: Solution F.