PREVIEW	CLOSE	

Test (CS): Polynomials

Question 1 of 25 (90791)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	3
Question:	Which of the expressions are monomials? Check all that apply.

Correct Answers:

Cho	ice	
3 <i>x</i> ²		
- <i>x</i> ⁹		
2 <i>x</i> -1		
16		
x ² -	2	
\sqrt{X}		
Attempt Incorrect Feedback		
1st		
	Choi $3x^2$ $-x^9$ $2x^{-1}$ 16 x^2 - \sqrt{x} mpt	Choice $3x^2$ $-x^9$ $2x^{-1}$ 16 $x^2 - 2$ \sqrt{x} Empt Incorrect Feedback

ISU	
	Correct Feedback
	Global Incorrect Feedback
	The correct answers are: $3x^2$, $-x^9$, and 16.

Question 2 of 25 (284761)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	3
Question:	Which of the expressions are monomials? Check all that apply.

Correct Answers:

	Choice
Α.	
В.	9 <i>x</i> ² - 2
*C.	3 <i>x</i> ¹⁰
*D.	16
*E.	2 <i>x</i>
F.	5 <i>x</i> ⁻¹

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answers are: $3x^{10}$, 16, and 2x.

Question 3 of 25 (90792)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	3
Question:	Which of the expressions are <i>not</i> polynomials? Check all that apply.

Correct Answers:

	Choice
* A .	$x^2 = \sqrt{x} = 3$
В.	$4 - 3x + 5x^6$
*C.	$5x^{1/2} + 4x^2$
D.	14 <i>x</i> ⁷
*E.	$\frac{x^2 - x - 12}{x + 2}$
F.	$8x^{10} + 2x^5$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answers are: $x^2 - \sqrt{x} - 7$, $5x^{1/2} + 4x^2$, and $\frac{x^2 - x - 17}{x + 3}$.

Question 4 of 25 (284763)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	3
Question:	Which of the expressions are <i>not</i> polynomials? Check all that apply.

Correct Answers:

	Choice
Α.	5 <i>x</i> ⁵
*В.	$5x^{-1} + 4x^{-2}$
C.	<i>x</i> ⁵ + 2
*D.	
*E.	$x^2 + + 4$
F.	$8x^{10} + 2x^5$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answers are: $5x^{-1} + 4x^{-2}$, , and $x^2 + + 4$.

Question 5 of 25 (90793)

1
Text Fill In Blank
3
false
7
What is the degree of the polynomial in the expression below?
f

 $x^6 + 3 - 2x^2 + 4x^7 - 4x$

Attempt	Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: 7.	

Question 6 of 25 (284765)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	3
Is Case Sensitive:	false
Correct Answer:	9
Question:	What is the degree of the polynomial in the expression below?

 $x^5 + 1 - 3x^4 + 3x^9 - 2x$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: 9.

Question 7 of 25 (90794)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	3
Is Case Sensitive:	false
Correct Answer:	-2
Question:	What is the coefficient of the term of degree 2 in the polynomial below?

 $x^6 + 3 - 2x^2 + 4x^7 - 4x$

Attempt	Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: -2.	

Question 8 of 25 (284767)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	3
Is Case Sensitive:	false
Correct Answer:	5
Question:	What is the coefficient of the term of degree 7 in the polynomial below?

 $2x^6 + 2 - 4x^2 + 5x^7 - 4x$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: 5.

Question 9 of 25 (90795)

1
Multiple Choice
3
Which answer is equal to the sum in the expression below?

 $(3x^3 + 4x^2 - 2x + 1) + (x^4 - x^3 + 5x^2 + 2x + 3)$

	Choice	Feedback
Α.	$ x^4 + 2x^3 + 9x^2 + 4x + 4 $	
в.	$x^4 + 4x^3 + 9x^2 + 4$	
C.	$x^4 + 2x^3 + 9x^2 - 4x + 4$	
*D.	$x^4 + 2x^3 + 9x^2 + 4$	

Global Incorrect Feedback

The correct answer is: $x^4 + 2x^3 + 9x^2 + 4$.

Question 10 of 25 (284769)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which answer is equal to the sum in the expression below?

$$(4x^3 + 2x^2 - x + 2) + (2x^4 - 3x^3 + 5x^2 + 6x + 3)$$

	Choice	Feedback
*A.	$2x^4 + x^3 + 7x^2 + 5x + 5$	
в.	$2x^4 + x^3 + 7x^2 + 5$	
c.	$2x^4 + x^3 + 7x^2 - 5x + 5$	
D.	$2x^4 + 2x^3 + 7x^2$ + 5x + 5	

Global Incorrect Feedback The correct answer is: $2x^4 + x^3 + 7x^2 + 5x + 5$.

Question 11 of 25 (90796)

1

3

True-False

Maximum Attempts: Question Type: Maximum Score: Question:

When calculated, the sums in the expressions below are equal.

$$(2^{3} + 3^{3} + 5) + (3^{3} + 2^{3} + 3^{2} + 3^{2} + 4)$$

$$4x^{3} - 4x^{2} - 2x - 3$$

+ $2x^{3} - 2x^{2} - 5x + 4$

	Choice	Feedback
Α.	True	
*B.	False	

Global Incorrect Feedback The correct answer is: False.

Question 12 of 25 (284771)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	3
Question:	When calculated, the sums in the expressions below are equal.

$$5x^3 - 3x^2 + x - 5$$

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

	Choice	Feedback
Α.	True	
*В.	False	

Global Incorrect Feedback

The correct answer is: False.

Question 13 of 25 (90797)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which answer is equal to the difference in the expression below?

 $(3x^3 - 4x^2 + x - 2) - (x^3 - 5x^2 + 3x + 2)$

	Choice	Feedback
*A.	$2x^3 + x^2 - 2x$ - 4	
в.	2 <i>x</i> ³ - 9 <i>x</i> ² - 2 <i>x</i> - 4	
C.	$2x^3 + x^2 + 4x - 4$	
D.	$2x^3 + x^2 - 2x$	

Global Incorrect Feedback

The correct answer is: $2x^3 + x^2 - 2x - 4$.

Question 14 of 25 (284773)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which answer is equal to the difference in the expression below?

 $(2x^3 - 6x^2 + 2x - 2) - (-2x^3 - 3x^2 + 3x + 3)$

	Choice	Feedback
Α.	$4x^3 - 3x^2 - 5$	
в.	4 <i>x</i> ³ - 3 <i>x</i> ² + <i>x</i> - 5	
c.	$4x^3 + 9x^2 + x - 5$	
*D.	4 <i>x</i> ³ - 3 <i>x</i> ² - <i>x</i> - 5	

Global Incorrect Feedback The correct answer is: $4x^3 - 3x^2 - x - 5$.

Question 15 of 25 (90798)

1
True-False
3
When calculated, the two differences given below are equal.

 $(2x^4 - 2x^2 + 2x + 4) = (-x^4 - 3x^3 + 4x^2 + x + 2)$

	Choice	Feedback
*A.	True	
В.	False	

Global Incorrect Feedback

The correct answer is: True.

Question 16 of 25 (284775)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	3
Question:	When calculated, the two differences given below are equal.

	Choice	Feedback
Α.	True	
*В.	False	

Global Incorrect Feedback

The correct answer is: False.

Question 17 of 25 (90799)

1

Maximum Attempts: Question Type: Maximum Score: Question:

Multiple Choice 3

Which answer shows the FOIL method used to expand the product below?

 $(2x^2 + C)(2x^2 + 5)$

A: 2x • 2x² + 2x • (-5) - 3 • 2x + 3 • (-5) E: 2x • 2x² - 2x • (-5) + 3 • 2x² + 3 • (-5) C: 2x • 2x² + 3 • 2x² + 2x² • (-6) - 3 • (-6)

	Choice	Feedback
Α.	Answer A	
*B.	Answer B	
C.	Answer C	

Global Incorrect Feedback
The correct answer is Answer B.

Question 18 of 25 (284777)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which answer shows the FOIL method used to expand the product below?

 $(3x+2)(3x^2+4)$

A: $3x \cdot 3x^{2} + 3x \cdot 4 + 2 \cdot 3x^{2} + 2 \cdot 4$ E: $3x \cdot 3x^{2} + 3x \cdot 4 + 2 \cdot 3x + 2 \cdot 4$ C: $5x \cdot 3x^{2} + 2 \cdot 5x^{2} + 3x^{2} \cdot 4 + 2 \cdot 4$

	Choice	Feedback
*A.	Answer A	
в.	Answer B	
C.	Answer C	

Global Incorrect Feedback The correct answer is: Answer A.

Question 19 of 25 (90800)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	3
Is Case Sensitive:	false
Correct Answer:	-10
Question:	Below you can see a table s

Below you can see a table set up to multiply two polynomials. What is the coefficient of the x^3 -term of the product?



Attempt	Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is -10.	

Question 20 of 25 (284779)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	3
Is Case Sensitive:	false
Correct Answer:	-2
Question:	Below you can see a table set up to multiply two polynomials. What is the coefficient of the x^3 -term of the product?



Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: -2.

Question 21 of 25 (90801)

-	
Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which answer is equal to the product in the expression below?
	$(3x^2 - 2x)(2x^2 + 3x - 1)$

	Choice	Feedback
А.	$6x^4 + 5x^3 - 3x^2 + 2x$	
в.	$5x^4 + 2x^3 - 8x^2 + 2x$	
c.	$6x^4 + 5x^3 - 9x^2 - 2x$	
*D.	$6x^4 + 5x^3 - 9x^2 + 2x$	

Global Incorrect Feedback The correct answer is: $6x^4 + 5x^3 - 9x^2 + 2x$.

Question 22 of 25 (284781)

1
Multiple Choice
3
Which answer is equal to the product in the expression below?

 $(2x^2 - 3x)(3x^2 + 2x - 1)$

	Choice	Feedback
Α.	$6x^4 + 5x^3 - 8x^2 + 3x$	
* B .	$6x^4 - 5x^3 - 8x^2 + 3x$	
C.	5 <i>x</i> ⁴ - 5 <i>x</i> ³ - 7 <i>x</i> ² - 3 <i>x</i>	
D.	6 <i>x</i> ⁴ - 5 <i>x</i> ³ - 8 <i>x</i> ² - 3 <i>x</i>	

Global Incorrect Feedback The correct answer is: $6x^4 - 5x^3 - 8x^2 + 3x$.

Question 23 of 25 (90802)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	3
Question:	When calculated, the two products given below are equal.

	Choice	Feedback
*A.	True	
В.	False	

Global Incorrect Feedback	
The correct answer is: True.	

Question 24 of 25 (284783)

Maximum Attempts:			
Question Type:			
Maximum Score:			
Question:			

1 True-False 3 When calculated, the two products given below are equal.

 $\frac{x^3 + x^2 + 5x + 2}{2 - 2x + 2} = \frac{x^3 + 2x + 2}{2 - 2} = \frac{x^3 + 2x + 4}{2 - 2x^2 + 4x + 4}$

	Choice	Feedback
*A.	True	
В.	False	

Global Incorrect Feedback
The correct answer is: True.

Question 25 of 25 (90808)

Maximum Attempts:	1	
Question Type:	Multiple Choice	
Maximum Score:	num Score: 3	
Question:	on: Which answer is equal to the product in the expression below?	

(3x - 5)(3x + 5)

	Choice	Feedback
Α.	6 <i>x</i> - 25	
В.	9 <i>x</i> ² - 30 <i>x</i> - 25	
C.	9 <i>x</i> ² - 15 <i>x</i> - 25	
*D.	9 <i>x</i> ² - 25	

Global Incorrect Feedback

The correct answer is: $9x^2$ - 25.