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Quiz: Quadratics with Perfect Square Trinomials

Question 1a of 8 (3 Solving Quadratics with Perfect Square Trinomials 90946)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which of the following are solutions to the equation below?

Check all that apply.

$(x - 5)^2 = 7$

Correct Answers:

	Choice
A.	$x = -\sqrt{7} - 5$
B.	$x = \sqrt{7} - 5$
***C.**	$x = -\sqrt{7} + 5$
***D.**	$x = \sqrt{7} + 5$
E.	$x = -\sqrt{12}$
F.	$x = \sqrt{12}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = -\sqrt{7} + 5$ and $x = \sqrt{7} + 5$.

Question 1b of 8 (3 Solving Quadratics with Perfect Square Trinomials 297602)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which of the following are solutions to the equation below?

Check all that apply.

$(x - 8)^2 = 7$

Correct Answers:

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	Choice
*A.	$x = \sqrt{7} + 8$
*B.	$x = -\sqrt{7} + 8$
C.	$x = -\sqrt{7} - 8$
D.	$x = \sqrt{7} - 8$
E.	$x = -\sqrt{5}$
F.	$x = \sqrt{5}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = \sqrt{7} + 8$ and $x = -\sqrt{7} + 8$.

Question 1c of 8 (3 Solving Quadratics with Perfect Square Trinomials 297603)

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which of the following are solutions to the equation below?

Check all that apply.

$(x - 6)^2 = 7$

Correct Answers:

	Choice
A.	$x = -\sqrt{7} - 6$
B.	$x = \quad - 6$
C.	$x =$
D.	$x = -$
*E.	$x = \quad + 6$
*F.	$x = - \quad + 6$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = \quad + 6$ and $x = - \quad + 6$.

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Question 2a of 8 (3 Solving Quadratics with Perfect Square Trinomials 90947)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which of the following are solutions to the equation below?

Check all that apply.

$(x + 3)^2 = 10$

Correct Answers:

	Choice
A.	$x = 10 + \sqrt{3}$
B.	$x = \sqrt{7}$
C.	$x = -\sqrt{7}$
*D.	$x = \sqrt{10} - 3$
E.	$x = 10 - \sqrt{3}$
*F.	$x = -\sqrt{10} - 3$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = \sqrt{10} - 3$ and $x = -\sqrt{10} - 3$.

Question 2b of 8 (3 Solving Quadratics with Perfect Square Trinomials 297604)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which of the following are solutions to the equation below?

Check all that apply.

$(x + 5)^2 = 10$

Correct Answers:

	Choice
A.	$x = 10 +$
B.	$x =$
C.	$x = -$
*D.	$x = - 5$
E.	$x = 10 -$
*F.	$x = - - 5$

Attempt	Incorrect Feedback
1st	

Alg

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = \sqrt{17} - 5$ and $x = -\sqrt{10} - 5$.

Question 2c of 8 (3 Solving Quadratics with Perfect Square Trinomials 297605)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

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

Check all that apply.

$(x + 6)^2 = 10$

Correct Answers:

	Choice
A.	$x = 10 + \sqrt{?}$
B.	$x = \sqrt{?}$
C.	$x = -\sqrt{?}$
*D.	$x = \sqrt{17} - 6$
E.	$x = 10 - \sqrt{6}$
*F.	$x = -\sqrt{10} - 6$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x =$ $- 6$ and $x = -$ $- 6$.

Question 3a of 8 (3 Solving Quadratics with Perfect Square Trinomials 90948)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

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

Check all that apply.

$(2x + 3)^2 = 10$

Correct Answers:

Alg

	Choice
A.	$x = -\dfrac{\sqrt{7}}{2}$
B.	$x = -\sqrt{10} + \dfrac{3}{2}$
*C.	$x = \dfrac{\sqrt{10} - 3}{2}$
*D.	$x = \dfrac{\sqrt{10} - 3}{2}$
E.	$x = \dfrac{\sqrt{7}}{2}$
F.	$x = \sqrt{10} + \dfrac{3}{2}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = \dfrac{-\sqrt{10} - 3}{2}$ and $x = \dfrac{\sqrt{10} - 3}{2}$.

Question 3b of 8 (3 Solving Quadratics with Perfect Square Trinomials 297606)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

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

Check all that apply.

$(2x + 3)^2 = 11$

Correct Answers:

	Choice
A.	$x = -$
B.	$x = -\quad +$
*C.	$x =$
D.	$x =$
*E.	$x =$
F.	$x =\quad +$

Attempt	Incorrect Feedback
1st	

Alg

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = \dfrac{\sqrt{11}-3}{2}$ and $x = \dfrac{\sqrt{11}-3}{2}$.

Question 3c of 8 (3 Solving Quadratics with Perfect Square Trinomials 297607)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

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

Check all that apply.

$(2x + 3)^2 = 13$

Correct Answers:

	Choice
*A.	$x = \dfrac{\sqrt{13}-3}{2}$
B.	$x = -\sqrt{17} + \dfrac{1}{2}$
C.	$x = -\dfrac{\sqrt{10}}{2}$
D.	$x = \dfrac{\sqrt{10}}{2}$
*E.	$x = \dfrac{\sqrt{13}-3}{2}$
F.	$x = \sqrt{3} + \dfrac{3}{2}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x =$ and $x =$.

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Question 4a of 8 (3 Solving Quadratics with Perfect Square Trinomials 90949)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

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

Check all that apply.

$(5x - 2)^2 = 10$

Correct Answers:

	Choice
A.	$x = -\sqrt{2} + 2$
B.	$x = -\dfrac{\sqrt{12}}{5}$
*C.	$x = \dfrac{-\sqrt{17} + 2}{5}$
*D.	$x = \dfrac{\sqrt{12}}{5}$ 2
E.	$x = \dfrac{\sqrt{12}}{5}$
F.	$x = \sqrt{2} + 2$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = \dfrac{-\sqrt{17} + 2}{5}$ and $x = \dfrac{\sqrt{12}}{5}$ 2.

Question 4b of 8 (3 Solving Quadratics with Perfect Square Trinomials 297608)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

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

Check all that apply.

$(5x - 2)^2 = 15$

Correct Answers:

Alg

	Choice
A.	$x = -\sqrt{2} + 2$
*B.	$x = \dfrac{-\sqrt{17} + 2}{5}$
C.	$x = -\dfrac{\sqrt{17}}{5}$
D.	$x = \dfrac{\sqrt{17}}{5}$
*E.	$x = \dfrac{\sqrt{15} + 2}{5}$
F.	$x = \sqrt{2} + 2$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = \dfrac{-\sqrt{15} - 2}{5}$ and $x = \dfrac{\sqrt{15} - 2}{5}$.

Question 4c of 8 (3 Solving Quadratics with Perfect Square Trinomials 297609)

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which of the following are solutions to the equation below?

Check all that apply.

$(5x - 2)^2 = 17$

Correct Answers:

	Choice
A.	$x = -\quad + 2$
B.	$x = -$
C.	$x = \quad + 2$
D.	$x =$
*E.	$x =$
*F.	$x =$

Attempt	Incorrect Feedback
1st	

Alg

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = \dfrac{-\sqrt{17} - 3}{5}$ and $x = \dfrac{\sqrt{17} - 2}{5}$.

Question 5a of 8 (3 Solving Quadratics with Perfect Square Trinomials 90950)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

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

Check all that apply.

$x^2 - 6x + 9 = 11$

Correct Answers:

	Choice
*A.	$x = \sqrt{11} + 3$
B.	$x = -\sqrt{2} + 6$
C.	$x = 2 - \sqrt{6}$
*D.	$x = -\sqrt{11} + 3$
E.	$x = 2 + \sqrt{6}$
F.	$x = \sqrt{2} + 6$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = \;\; + 3$ and $x = - \;\; + 3$.

Question 5b of 8 (3 Solving Quadratics with Perfect Square Trinomials 297610)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

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

Check all that apply.

$x^2 - 8x + 16 = 11$

Correct Answers:

Alg

	Choice
A.	$x = -\sqrt{} + 8$
*B.	$x = \sqrt{11} + 4$
*C.	$x = -\sqrt{11} + 4$
D.	$x = 5 - \sqrt{}$
E.	$x = 5 + \sqrt{}$
F.	$x = \sqrt{} + 8$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

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

Question 5c of 8 (3 Solving Quadratics with Perfect Square Trinomials 297611)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

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

Check all that apply.

$x^2 - 4x + 4 = 11$

Correct Answers:

	Choice
A.	$x = 4 - \sqrt{7}$
B.	$x = -\sqrt{} + 7$
*C.	$x = + 2$
*D.	$x = - + 2$
E.	$x = 4 + $
F.	$x = + 7$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = + 2$ and $x = - + 2.$

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Question 6a of 8 (3 Solving Quadratics with Perfect Square Trinomials 90951)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

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

Check all that apply.

$x^2 + 10x + 25 = 8$

Correct Answers:

	Choice
A.	$x = 8 - \sqrt{5}$
B.	$x = 8 + \sqrt{}$
C.	$x = -\sqrt{7} - 10$
*D.	$x = -2\sqrt{} - 5$
*E.	$x = 2\sqrt{} - 5$
F.	$x = \sqrt{7} - 10$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

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

Question 6b of 8 (3 Solving Quadratics with Perfect Square Trinomials 297612)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

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

Check all that apply.

$x^2 + 10x + 25 = 18$

Correct Answers:

	Choice
A.	$x = 18 -$
*B.	$x = -3 - 5$
C.	$x = - 10$
D.	$x = 18 +$
*E.	$x = 3 - 5$
F.	$x = - - 10$

Alg

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = -3\sqrt{2} - 5$ and $x = 3\sqrt{2} - 5$.

Question 6c of 8 (3 Solving Quadratics with Perfect Square Trinomials 297613)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

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

Check all that apply.

$x^2 + 10x + 25 = 12$

Correct Answers:

	Choice
A.	$x = 12 - \sqrt{}$
B.	$x = 12 + \sqrt{5}$
*C.	$x = -2\sqrt{} - 5$
D.	$x = \sqrt{3} - 10$
*E.	$x = 2\sqrt{} - 5$
F.	$x = -\sqrt{3} - 10$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

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

Question 7a of 8 (3 Solving Quadratics with Perfect Square Trinomials 90952)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

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

Check all that apply.

$4x^2 - 12x + 9 = 5$

Correct Answers:

Alg

	Choice
A.	$x = \sqrt{5} + \frac{3}{2}$
***B.**	$x = \frac{\sqrt{5} + 3}{2}$
C.	$x = \sqrt{2} - 3$
***D.**	$x = \frac{\sqrt{5} + 3}{2}$
E.	$x = -\sqrt{5} - 3$
F.	$x = -\sqrt{5} + \frac{3}{5}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = \frac{\sqrt{5} + 3}{2}$ and $x = \frac{\sqrt{5} + 3}{2}$.

Question 7b of 8 (3 Solving Quadratics with Perfect Square Trinomials 297614)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which of the following are solutions to the equation below?

Check all that apply.

$4x^2 - 12x + 9 = 7$

Correct Answers:

	Choice
A.	$x = \quad +$
***B.**	$x =$
C.	$x = - \quad - 3$
***D.**	$x =$
E.	$x = \quad - 3$
F.	$x = - \quad +$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

Alg

	Global Incorrect Feedback
	The correct answers are: $x = \dfrac{-\sqrt{7} + 3}{2}$ and $x = \dfrac{\sqrt{7} + 3}{2}$.

Question 7c of 8 (3 Solving Quadratics with Perfect Square Trinomials 297615)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which of the following are solutions to the equation below?
	Check all that apply.
	$4x^2 - 12x + 9 = 3$

Correct Answers:

	Choice
A.	$x = \sqrt{3} + \dfrac{3}{2}$
*B.	$x = \dfrac{-\sqrt{} + }{2}$
C.	$x = \sqrt{6} - 3$
*D.	$x = \dfrac{\sqrt{} + }{}$
E.	$x = -\sqrt{6} - 3$
F.	$x = -\sqrt{3} + \dfrac{3}{2}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x =$ and $x =$.

Question 8a of 8 (3 Solving Quadratics with Perfect Square Trinomials 90953)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which of the following are solutions to the equation below?
	Check all that apply.
	$4x^2 + 4x + 1 = 9$

Correct Answers:

Alg

	Choice
*A.	$x = 1$
B.	$x = \sqrt{11} + \frac{1}{2}$
C.	$x = \frac{\sqrt{2}}{2}$
*D.	$x = -2$
E.	$x = -\sqrt{10} + \frac{1}{2}$
F.	$x = \sqrt{2}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = 1$ and $x = -2$.

Question 8b of 8 (3 Solving Quadratics with Perfect Square Trinomials 297616)

Maximum Attempts: 1
Question Type: Multiple Response
Maximum Score: 2
Question: Which of the following are solutions to the equation below?

Check all that apply.

$9x^2 + 9x + 1 = 19$

Correct Answers:

	Choice
*A.	$x = 1$
B.	$x = 2\sqrt{5} + \frac{1}{3}$
C.	$x =$
D.	$x =$
E.	$x = -2 \quad +$
*F.	$x = -2$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = 1$ and $x = -2$.

Alg

Question 8c of 8 (3 Solving Quadratics with Perfect Square Trinomials 297617)

Maximum Attempts: 1

Question Type: Multiple Response

Maximum Score: 2

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

Check all that apply.

$2x^2 + 2x + 1 = 5$

Correct Answers:

	Choice
A.	$x = \sqrt{6} + \dfrac{1}{2}$
*B.	$x = 1$
C.	$x = \sqrt{\dfrac{5}{2}}$
D.	$x = -\sqrt{5} + \dfrac{1}{2}$
*E.	$x = -2$
F.	$x = \sqrt{5}$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answers are: $x = 1$ and $x = -2$.