PREVIEW

CLOSE

Quiz: Graphs of Quadratic Functions

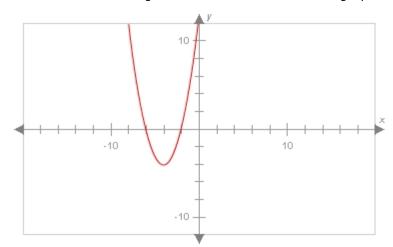
Question 1a of 15 (3 Graphing Quadratic Equations 148627)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following functions best describes this graph?



	Choice	Feedback
A.	$\gamma = \chi^2 + 2\sqrt{+2}$	
В.	y = (x + 5)(x - 4)	
c.	$\gamma = (x - C)(x - 4)$	
*D.	$y = x^2 + 8x + 12$	Correct!

Global Incorrect Feedback

The correct answer is: $y = x^2 + 8x + 12$.

Question 1b of 15 (3 Graphing Quadratic Equations 244979)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following functions best describes this graph?

	Choice	Feedback
A.	$y=x^2-z:=4$	
*В.	$y = x^2 + 3x - 16$	Correct!
c.	V = (x - C)(x - C)	
D.	y = (x + 5)(x - 4)	

Global Incorrect Feedback

The correct answer is: $y = x^2 + b \times + 1c$.

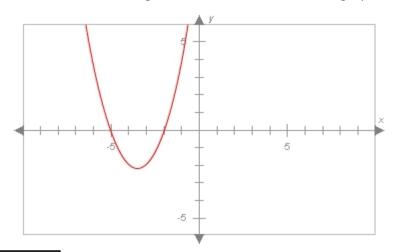
Question 1c of 15 (3 Graphing Quadratic Equations 244980)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following functions best describes this graph?



	Choice	Feedback
*A.	$y = x^2 + 7x + 1^{-1}$	Correct!
B.	y = (x +5)(x -3).	
c.	$N = \{(1, -1)^{\prime}, (1, -1)^{\prime}\}$	
D.	$y = x^2 + 5x + 12$	_

Global Incorrect Feedback

The correct answer is:

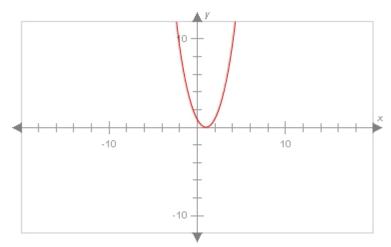
Question 2a of 15 (3 Graphing Quadratic Equations 148628)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following functions best describes this graph?



	Choice	Feedback
A.	ķ x ² - v + =	
*B.	y = (x - 1)(x - 1)	Correct!
c.	y x ² = 5,6 ± 6	
D.	y = (x - z)(x + 2)	

Global Incorrect Feedba	
	ck

The correct answer is: y = (y - 1)(x - 1).

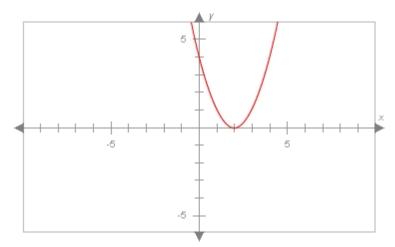
Question 2b of 15 (3 Graphing Quadratic Equations 244981)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following functions best describes this graph?



	Choice	Feedback
A.		
В.		
c.		
*D.		Correct!

Global Incorrect Feedback

The correct answer is: $\frac{1}{2} = (\frac{1}{2} - \frac{2}{2})^{2} - \frac{2}{2}$.

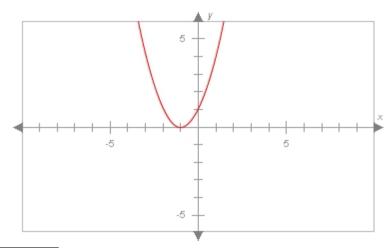
Question 2c of 15 (3 Graphing Quadratic Equations 244982)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following functions best describes this graph?



	Choice	Feedback
A.	$y = x^2 - x + 6$	
В.	y = (x - f)(x + 3)	
c.	$y = x^2 - 6x + z$	
*D.	y = (x + f)(x + f)	Correct!

Global Incorrect Feedback

The correct answer is: Y = (x + 1)(x + 1).

Question 3a of 15 (3 Graphing Quadratic Equations 148629)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following functions best describes this graph?

	Choice	Feedback
*A.	$y = x^2 - \theta \approx 18$	Correct!
В.	$y \in (x-z)(x+4)$	
c.	y x ² =5 : ±6	
D.	$\lambda = (x + 1)(x + 1)$	

Global Incorrect Feedback

The correct answer is: $y = x^2 + 5x + 18$.

Question 3b of 15 (3 Graphing Quadratic Equations 244984)

Maximum Attempts:

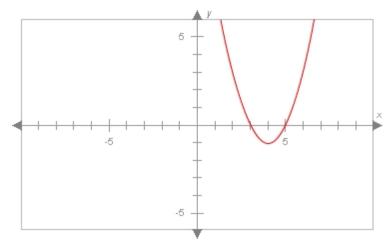
Question Type:

Multiple Choice

Maximum Score:

Question:

Which of the following functions best describes this graph?



	Choice	Feedback
A.	y x ² = 5x + 6	
B.	y=(x-z)(x+4)	
*C.	y x ² = 5x + 15	Correct!
D.	y = (x + z)(x + 3)	

Global Incorrect Feedback

The correct answer is:

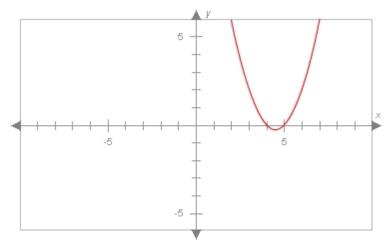
Question 3c of 15 (3 Graphing Quadratic Equations 244985)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following functions best describes this graph?



	Choice	Feedback
A.	y 3 -8x+ 8	
В.	y = (x - 3)(x - 4)	
c.	/ = (x + 1) (x + 1)	
*D.	y = x ² -9x + 20	Correct!

Global Incorrect Feedback

The correct answer is: $v = v^2 - b : + 2U$.

Question 4a of 15 (3 Graphing Quadratic Equations 148630)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which graph is defined by the function given below?

$$y = (x - 1)(x + 4)$$

	Choice	Feedback
Α.	Graph A	
B.	Graph B	
*C.	Graph C	Correct!
D.	Graph D	

Global Incorrect Feedback

The correct answer is: Graph C.

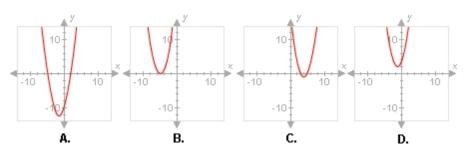
Question 4b of 15 (3 Graphing Quadratic Equations 244986)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which graph is defined by the function given below?



	Choice	Feedback
*A.	Graph A	Correct!
B.	Graph B	
c.	Graph C	
D.	Graph D	

Global Incorrect Feedback

The correct answer is: Graph A.

Question 4c of 15 (3 Graphing Quadratic Equations 244987)

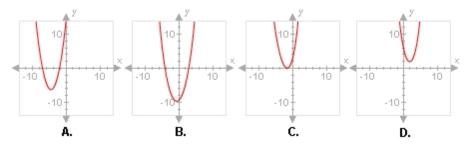
Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which graph is defined by the function given below?

$$y = (x - 3)(x + 4)$$



	Choice	Feedback
A.	Graph A	
*В.	Graph B	Correct!
c.	Graph C	
D.	Graph D	-

Global Incorrect Feedback

The correct answer is: Graph B.

Question 5a of 15 (3 Graphing Quadratic Equations 148631)

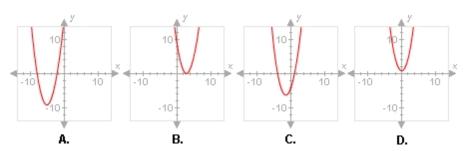
Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which graph is defined by the function given below?

$$y = (x + 8)(x + 2)$$



	Choice	Feedback
*A.	Graph A	Correct!
В.	Graph B	
c.	Graph C	
D.	Graph D	

Global Incorrect Feedback

The correct answer is: Graph A.

Question 5b of 15 (3 Graphing Quadratic Equations 244988)

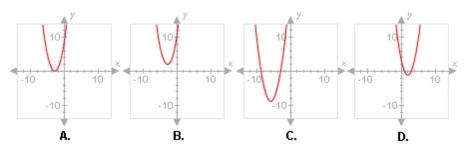
Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which graph is defined by the function given below?

$$y = (x + 9)(x - 3)$$



	Choice	Feedback
A.	Graph A	
B.	Graph B	
*C.	Graph C	Correct!
D.	Graph D	

Global Incorrect Feedback

The correct answer is: Graph C.

Question 5c of 15 (3 Graphing Quadratic Equations 244989)

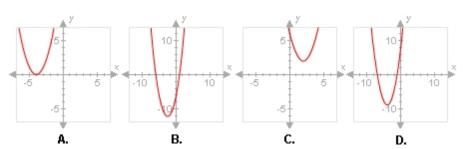
Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which graph is defined by the function given below?

$$\gamma = (x + T)(x + 1)$$



	Choice	Feedback
A.	Graph A	
В.	Graph B	
c.	Graph C	
*D.	Graph D	Correct!

Global Incorrect Feedback

The correct answer is: Graph D.

Question 6a of 15 (3 Graphing Quadratic Equations 148632)

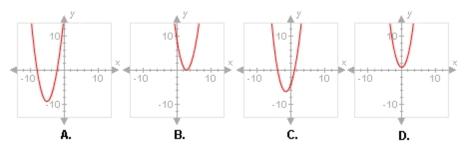
Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which graph is defined by the function given below?

$$y = (x - 3)(x - 3)$$



	Choice	Feedback
A.	Graph A	
*В.	Graph B	Correct!
c.	Graph C	
D.	Graph D	

Global Incorrect Feedback

The correct answer is: Graph B.

Question 6b of 15 (3 Graphing Quadratic Equations 244990)

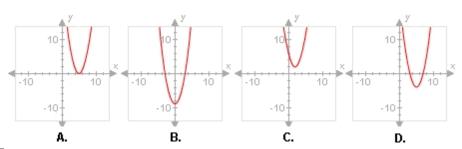
Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which graph is defined by the function given below?

$$y = (x - 5)(x - 5)$$



	Choice	Feedback
*A.	Graph A	Correct!
B.	Graph B	
c.	Graph C	
D.	Graph D	

Global Incorrect Feedback

The correct answer is: Graph A.

Question 6c of 15 (3 Graphing Quadratic Equations 244991)

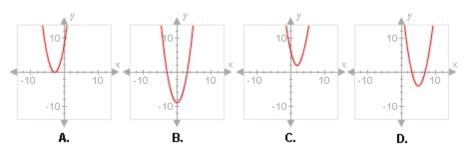
Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which graph is defined by the function given below?

$$y = (x+3)(x+3)$$



	Choice	Feedback
*A.	Graph A	Correct!
B.	Graph B	
c.	Graph C	
D.	Graph D	

Global Incorrect Feedback

The correct answer is: Graph A.

Question 7a of 15 (3 Graphing Quadratic Equations 148633)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2
Is Case Sensitive: false

Correct Answer: (4, -4), (4,-4)

Question: Find the vertex of the function. Write your answer in the form (x,y). Use the

slash mark (/) as a fraction bar if necessary.

 $y = x^2 - 8x + 12$

_	
Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: (4,-4).

Question 7b of 15 (3 Graphing Quadratic Equations 244993)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2 **Is Case Sensitive:** false

Correct Answer: (3, -3), (3,-3)

Question: Find the vertex of the function. Find the vertex of the function. Write your

answer in the form (x,y). Use the slash mark (/) as a fraction bar if

necessary.

 $y = x^7 - 6x + 6$

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

Question 7c of 15 (3 Graphing Quadratic Equations 244994)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score:2Is Case Sensitive:false

Correct Answer: (5, -5), (5,-5)

Question: Find the vertex of the function. Write your answer in the form (x,y). Use the

slash mark (/) as a fraction bar if necessary.

Attempt	Incorrect Feedback
1st	
	Correct Feedback

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

Question 8a of 15 (3 Graphing Quadratic Equations 148634)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2
Is Case Sensitive: false

Correct Answer: (3/2, -93/4), (3/2, -93/4), (3/2, -93/4)

Question: Find the vertex of the function. Write your answer in the form (x,y). Use the

slash mark (/) as a fraction bar if necessary.

$$y = x^2 - 3x - 2^x$$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Global Incorrect Feedback
	The correct answer is: (3/2,-93/4).

Question 8b of 15 (3 Graphing Quadratic Equations 244995)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2
Is Case Sensitive: false

Correct Answer: (5/2, -85/4)

Question: Find the vertex of the function. Write your answer in the form (x,y). Use the

slash mark (/) as a fraction bar if necessary.

$$y = x^2 - 5x - 5$$

Attempt	Incorrect Feedback	
1st		
Comput Fronthants		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: (5/2,-85/4).	

Question 8c of 15 (3 Graphing Quadratic Equations 244996)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2 **Is Case Sensitive:** false

Correct Answer: (1/2, -93/4), (1/2, -93/4), (1/2, -93/4)

Question: Find the vertex of the function. Write your answer in the form (x,y). Use the

slash mark as a fraction bar if necessary.

Attempt	Incorrect Feedback
1st	

Correct Feedback	
Global Incorrect Feedback	
 GIODAI IIICOITECE I CEADACK	
The correct answer is: (1/2,-93/4).	

Question 9a of 15 (3 Graphing Quadratic Equations 148635)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2 **Is Case Sensitive:** false

Correct Answer: (-4, -1), (-4,-1)

Question: Find the vertex of the function. Write your answer in the form (x,y). Use the

slash mark (/) as a fraction bar if necessary.

Attempt	Incorrect Feedback	
1st		
	Correct Feedback	
	Clabel Tonor at Facility at	
	Global Incorrect Feedback	
	The correct answer is: (-4,-1).	

Question 9b of 15 (3 Graphing Quadratic Equations 244997)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2
Is Case Sensitive: false

Correct Answer: (-3, -2), (-3,-2)

Question: Find the vertex of the function. Write your answer in the form (x,y). Use the

slash mark (/) as a fraction bar if necessary.

Attempt	Incorrect Feedback	
1st		
	Correct Feedback	
	Global Incorrect Feedback	
	The correct answer is: (-3,-2).	

Question 9c of 15 (3 Graphing Quadratic Equations 244998)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2
Is Case Sensitive: false

Correct Answer: (-5, -3), (-5,-3)

Question: Find the vertex of the function. Write your answer in the form (x,y). Use the

slash mark (/) as a fraction bar if necessary.

$$y = x^2 - 1 \pm x - 22$$

Attempt	Incorrect Feedback
1st	
	Correct Feedback

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

Question 10a of 15 (3 Graphing Quadratic Equations 153034)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Find the vertex and *x*-intercept(s) of the function given below.

$$\varphi \in (x - \lambda)(x - \lambda)$$

	Choice	Feedback
A.	Vertex: (1,9); Intercepts: <i>x</i> = -4, -2	
В.	Vertex: (1,-5); Intercepts: <i>x</i> = -4, 2	
*C.	Vertex: (1,-9); Intercepts: <i>x</i> = 4, -2	Correct!
D.	Vertex: (-4,2); Intercepts: <i>x</i> = 3, -3	

Global Incorrect Feedback

The correct answer is: Vertex: (1,-9); Intercepts: x = 4, -2.

Question 10b of 15 (3 Graphing Quadratic Equations 244999)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Find the vertex and *x*-intercept(s) of the function given below.

	Choice	Feedback
*A.	Vertex: $(-3,-1)$; Intercepts: $x = -4, -2$	Correct!
В.	Vertex: (1,-5); Intercepts: <i>x</i> = -4, 2	
c.	Vertex: (1,-9); Intercepts: <i>x</i> = 4, -2	
D.	Vertex: (-4,2); Intercepts: <i>x</i> = 3, -3	

Global Incorrect Feedback

The correct answer is: Vertex: (-3,-1); Intercepts: x = -4, -2.

Question 10c of 15 (3 Graphing Quadratic Equations 245000)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Find the vertex and *x*-intercept(s) of the function given below.

$$y = (x + 4)(x - 2).$$

	Choice	Feedback
A.	Vertex: (1,9); Intercepts: <i>x</i> = -4, -2	
*В.	Vertex: (-1,-9); Intercepts: <i>x</i> = -4, 2	Correct!
c.	Vertex: (1,-9); Intercepts: <i>x</i> = 4, -2	
D.	Vertex: (-4,2); Intercepts: <i>x</i> = 3, -3	

Global Incorrect Feedback

The correct answer is: Vertex: (-1,-9); Intercepts: x = -4, 2.

Question 11a of 15 (3 Graphing Quadratic Equations 153035)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Find the vertex and x-intercept(s) of the function given below.

	Choice	Feedback
A.	Vertex: (0,6); Intercepts: <i>x</i> = -2, 6	
*В.	Vertex: (1,5); Intercepts: none	Correct!
c.	Vertex: (-1,9); Intercepts: none	
D.	Vertex: (-2,6); Intercepts: <i>x</i> = 1, 6	

Global Incorrect Feedback

The correct answer is:

Vertex: (1,5); Intercepts: none.

Question 11b of 15 (3 Graphing Quadratic Equations 245001)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Find the vertex and x-intercept(s) of the function given below.

$$y = x^2 + 2x + 6$$

	Choice	Feedback
A.	Vertex: (0,6); Intercepts: <i>x</i> = -2, 6	
В.	Vertex: (1,5); Intercepts: none	
*C.	Vertex: (-1,5); Intercepts: none	Correct!
D.	Vertex: (-2,6); Intercepts: <i>x</i> = 1, 6	

Global Incorrect Feedback

The correct answer is: Vertex: (-1,5); Intercepts: none.

Question 11c of 15 (3 Graphing Quadratic Equations 245002)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Find the vertex and *x*-intercept(s) of the function given below.

$$y = x^2 - 4x - 7$$

	Choice	Feedback
*A.	Vertex: (-2,3); Intercepts: none	Correct!
В.	Vertex: (1,5); Intercepts: <i>x</i> = -2, 6	
c.	Vertex: (-1,9); Intercepts: none	
D.	Vertex: (-2,6); Intercepts: <i>x</i> = 1, 6	

Global Incorrect Feedback

The correct answer is: Vertex: (-2,3); Intercepts: none.

Question 12a of 15 (2 Graphing Quadratic Equations 328550)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: When the graph of a quadratic function crosses the x-axis twice, the

x-coordinate of the vertex lies _____ between the two x-intercepts.

	Choice	Feedback
A.	around halfway	
*В.	exactly halfway	Correct!
C.	anywhere	

Global Incorrect Feedback

The correct answer is: exactly halfway.

Question 12b of 15 (2 Graphing Quadratic Equations 328551)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: When the graph of a quadratic function crosses the *x*-axis twice, the

x-coordinate of the _____ lies exactly halfway between the two *x*-intercepts.

	Choice	Feedback
A.	origin	
В.	<i>y</i> -intercept	
*C.	vertex	Correct!

Global Incorrect Feedback

The correct answer is: vertex.

Question 12c of 15 (2 Graphing Quadratic Equations 328552)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: When the graph of a quadratic function crosses the *x*-axis twice, the _____ of

the vertex lies exactly halfway between the two *x*-intercepts.

	Choice	Feedback
*A.	<i>x</i> -coordinate	Correct!
В.	<i>y</i> -coordinate	
C.	<i>y</i> -axis	

Global Incorrect Feedback

The correct answer is: x-coordinate.

Question 13a of 15 (2 Graphing Quadratic Equations 148639)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score:2Is Case Sensitive:falseCorrect Answer:factors

Question: You can easily identify the *x*-intercepts of the graph of a quadratic function by

writing it as two binomial _____

Attempt	Incorrect Feedback
1st	

Correct Feedback
Global Incorrect Feedback
The correct answer is: factors.

Question 13b of 15 (2 Graphing Quadratic Equations 245005)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score:2Is Case Sensitive:falseCorrect Answer:factors

Question: You can easily identify the x-intercepts of the graph of a quadratic function by

writing it as two binomial _____.

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

Question 13c of 15 (2 Graphing Quadratic Equations 245006)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score:2Is Case Sensitive:falseCorrect Answer:factors

Question: You can easily identify the *x*-intercepts of the graph of a quadratic function by

writing it as two binomial _____

Attemp	t Incorrect Feedback
1st	
	Cowart Foodback
	Correct Feedback
	Global Incorrect Feedback
-	
	The correct answer is: factors.

Question 14a of 15 (3 Graphing Quadratic Equations 148640)

Maximum Attempts: 1

Question Type: Numeric Fill In Blank

Maximum Score: 2 Correct Answer: 1

Question: Find the x-coordinate of the vertex of the function given below. You may enter

just the number.

Attempt	Incorrect Feedback
1st	

Correct Feedback
Global Incorrect Feedback
Giobai Tilcorrect Feedback
The correct answer is: 1.

Question 14b of 15 (3 Graphing Quadratic Equations 245007)

Maximum Attempts: 1

Question Type: Numeric Fill In Blank

Maximum Score: 2
Correct Answer: 1

Question: Find the x-coordinate of the vertex of the function given below. You may enter

just the number.

$$y = (x - 6)(x - 4)$$

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

Question 14c of 15 (3 Graphing Quadratic Equations 245008)

Maximum Attempts: 1

Question Type: Numeric Fill In Blank

Maximum Score: 2
Correct Answer: 1

Question: Find the *x*-coordinate of the vertex of the function given below. You may enter

just the number.

$$y = (x - t)(x + 5)$$

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

Question 15a of 15 (3 Graphing Quadratic Equations 148641)

Maximum Attempts: 1

Question Type: Numeric Fill In Blank

Maximum Score: 2 Correct Answer: -5

Question: Find the x-coordinate of the vertex of the function given below. You may enter

just the number.

Attempt	Incorrect Feedback
1st	

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Correct Feedback
Global Incorrect Feedback

Question 15b of 15 (3 Graphing Quadratic Equations 245009)

Maximum Attempts: 1

Question Type: Numeric Fill In Blank

Maximum Score: 2
Correct Answer: -6

Question: Find the *x*-coordinate of the vertex of the function given below. You may enter

just the number.

$$y = x^2 - 12x - 2^x$$

Attempt	Incorrect Feedback			
1st				
	Correct Feedback			
	Global Incorrect Feedback			
	The correct answer is: -6.			

Question 15c of 15 (3 Graphing Quadratic Equations 245010)

Maximum Attempts: 1

Question Type: Numeric Fill In Blank

Maximum Score: 2
Correct Answer: -7

Question: Find the *x*-coordinate of the vertex of the function given below. You may enter

just the number.

Attempt	Incorrect Feedback
1st	
	Compatible de
	Correct Feedback
	Global Incorrect Feedback
	Global Illcollect Feedback
	The correct answer is: -7.