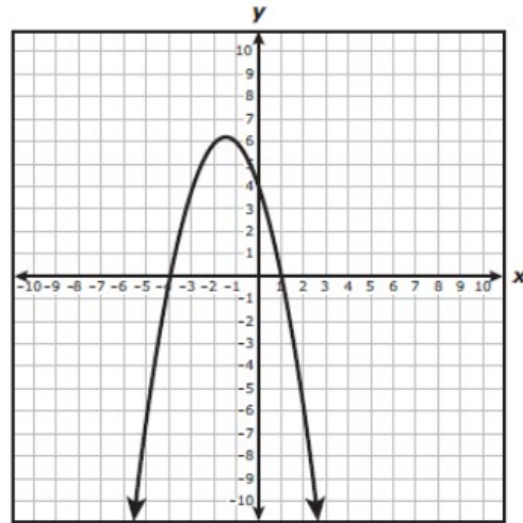


STAAR Released Item	Drag and Drop
<p>A.6(A) 2019 item 50 [Describing Quadratic Functions]</p> <p>What are the domain and range of $g(x) = -\frac{1}{4}(x - 17)^2 + 61$?</p> <p>F Domain: All real numbers Range: $g(x) \leq 61$</p> <p>G Domain: $x \leq 17$ Range: $g(x) \leq 61$</p> <p>H Domain: All real numbers Range: $x \leq 17$</p> <p>J Domain: $g(x) \geq 61$ Range: $x \leq 17$</p>	<p>What are the domain and range of $g(x) = -\frac{1}{4}(x - 17)^2 + 61$?</p> <p>Move the correct answer to each box. Not all answers will be used.</p> <p>Domain: <input type="text"/></p> <p>Range: <input type="text"/></p> <p><input type="text" value="g(x) ≤ 61"/> <input type="text" value="g(x) ≥ 61"/> <input type="text" value="x ≤ 17"/> <input type="text" value="All real numbers"/></p>

STAAR Released Item

A.6(C) 2017 item 10
[Writing and Solving Quadratic Equations]

The graph of a quadratic function is shown on the grid.

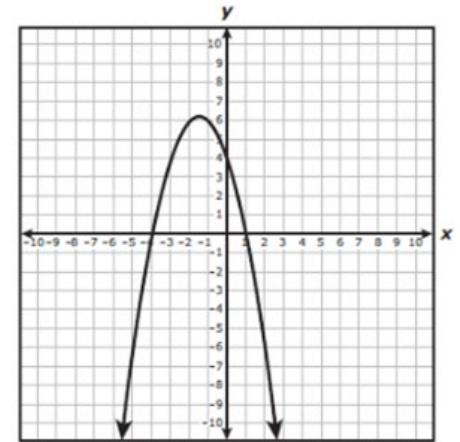


Which function is best represented by this graph?

- F $f(x) = x^2 + 3x - 4$
- G $f(x) = -x^2 - 3x + 4$
- H $f(x) = x^2 - 3x - 4$
- J $f(x) = -x^2 + 3x + 4$

Equation Editor

The graph of a quadratic function is shown on the grid.



Write a function that can represent this graph.

Enter your answer in the space provided.

$f(x) =$

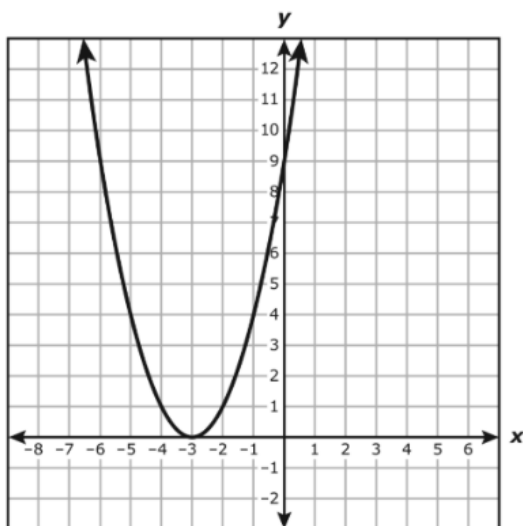
X

1	2	3	X						
4	5	6	+	-	*	/	=		
7	8	9	<	>	=	>	>		
	0		$\frac{\square}{\square}$	()	$\sqrt{\square}$	x			
.	-	$\frac{\square}{\square}$							

STAAR Released Item

A.7(A) 2019 item 46
[Describing Quadratic Functions]

The graph of quadratic function k is shown on the grid.



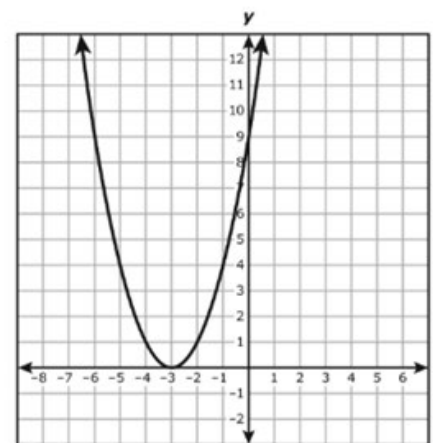
Which statements are best supported by the graph of k ?

- I. The x -intercept is located at $(-3, 0)$.
- II. The coordinates of the y -intercept are $(0, 9)$.
- III. The axis of symmetry is $x = -3$.

- F I and II only
- G I and III only
- H II and III only
- J I, II, and III

Multiselect

The graph of quadratic function k is shown on the grid.



Which statements are best supported by the graph of k ?

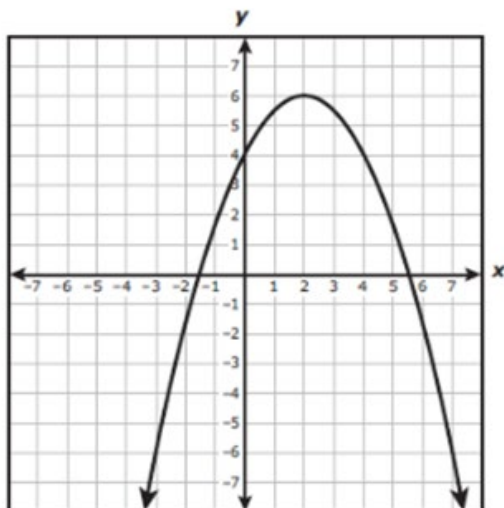
Select **TWO** correct answers.

- The x -intercept is located at $(0, -3)$.
- The coordinates of the y -intercept are $(0, 9)$.
- The axis of symmetry is $x = -3$.
- The minimum is at $(0, 0)$.**

STAAR Released Item

A.7(A) 2017 item 46
[Describing Quadratic Functions]

The graph of a quadratic function is shown on the grid.

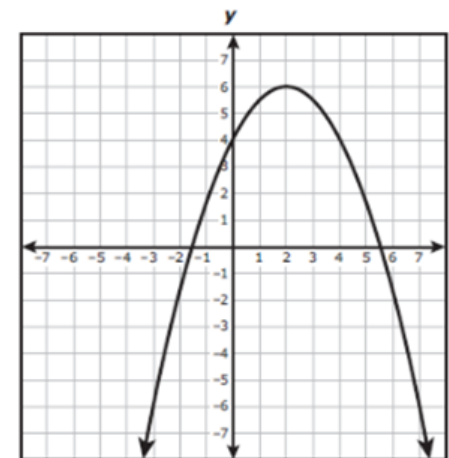


Which equation best represents the axis of symmetry?

- F $y = 6$
- G $x = 2$
- H $y = 4$
- J $x = 0$

Multiselect

The graph of a quadratic function is shown on the grid.



Write an equation in equation in standard form that represents the axis of symmetry.

Enter your answer in the space provided.

← → ↶ ↷ ✖

1	2	3	x	y					
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7	8	9	<	≤	=	≥	>		
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STAAR Released Item	Inline Choice																																						
<p>A.7(C) 2018 item 48 [Describing Quadratic Functions]</p> <p>The graph of $g(x) = x^2$ was transformed to create the graph of $h(x) = -\left(\frac{x}{4}\right)^2$. Which of these describes the transformation from the graph of g to the graph of h?</p> <p>F A reflection over the x-axis and a horizontal stretch G A reflection over the y-axis and a horizontal stretch H A reflection over the x-axis and a vertical stretch J A reflection over the y-axis and a vertical stretch</p>	<p>The graph of $g(x) = x^2$ was transformed to create the graph of $h(x) = -\left(\frac{x}{4}\right)^2$.</p> <p>Complete the description of the transformation of graph of g to the graph of h.</p> <p>Choose the correct answer from each drop-down menu to complete the description.</p> <p>A reflection over the <input type="text" value="x-axis"/> and a <input type="text" value="horizontal"/> stretch</p> <p style="text-align: center;"> <small>x-axis</small> <small>y-axis</small> <small>horizontal</small> <small>vertical</small> </p>																																						
STAAR Released Item	Text Entry																																						
<p>A.8(A) 2018 item 41 [Writing and Solving Quadratic Equations]</p> <p>The area of a rectangular trampoline is 112 ft^2. The length of the trampoline is 6 ft greater than the width of the trampoline. This situation can be represented by the equation $w^2 + 6w - 112 = 0$.</p> <p>What is the width of the trampoline in feet?</p> <p>A 7 ft B 16 ft C 8 ft D 14 ft</p>	<p>The area of a rectangular trampoline is 112 ft^2. The length of the trampoline is 6 ft greater than the width of the trampoline. This situation can be represented by the equation $w^2 + 6w - 112 = 0$.</p> <p>What is the width of the trampoline in feet?</p> <p>Enter your answer in the space provided.</p> <div style="border: 1px solid gray; padding: 5px; margin-top: 10px;"> <input style="width: 100%; height: 25px; margin-bottom: 5px;" type="text"/> <div style="border: 1px solid gray; padding: 2px; display: flex; align-items: center;"> <div style="margin-right: 5px;">←</div> <div style="margin-right: 5px;">→</div> <div style="margin-right: 5px;">↶</div> <div style="margin-right: 5px;">↷</div> <div style="margin-right: 5px;">✖</div> </div> <table border="1" style="border-collapse: collapse; text-align: center; width: 100%;"> <tr> <td style="width: 25px;">1</td><td style="width: 25px;">2</td><td style="width: 25px;">3</td><td style="width: 25px;"></td><td style="width: 25px;"></td><td style="width: 25px;"></td><td style="width: 25px;"></td></tr> <tr> <td>4</td><td>5</td><td>6</td><td>+</td><td>-</td><td>•</td><td>÷</td></tr> <tr> <td>7</td><td>8</td><td>9</td><td><</td><td>≤</td><td>=</td><td>≥</td><td>></td></tr> <tr> <td></td><td>0</td><td></td><td>\square^\square</td><td>()</td><td>$\sqrt{\square}$</td><td>π</td><td></td></tr> <tr> <td>.</td><td>-</td><td>$\frac{\square}{\square}$</td><td></td><td></td><td></td><td></td><td></td></tr> </table> </div>	1	2	3					4	5	6	+	-	•	÷	7	8	9	<	≤	=	≥	>		0		\square^\square	()	$\sqrt{\square}$	π		.	-	$\frac{\square}{\square}$					
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STAAR Released Item	Multiselect
<p data-bbox="86 261 457 313">A.8(A) 2016 item 29 [Writing and Solving Quadratic Equations]</p> <p data-bbox="170 337 953 383">What are the solutions to $2(x - 7)^2 = 32$?</p> <p data-bbox="170 444 464 490">A $x = 7 \pm \sqrt{32}$</p> <p data-bbox="170 548 432 594">B $x = \pm \sqrt{65}$</p> <p data-bbox="170 652 564 698">C $x = 3$ and $x = 11$</p> <p data-bbox="170 756 590 802">D $x = -1$ and $x = 15$</p>	<p data-bbox="1220 321 1955 367">What are the solutions to $2(x - 7)^2 = 32$?</p> <p data-bbox="1125 441 1549 477">Select TWO correct answers.</p> <p data-bbox="1125 539 1402 584"><input type="checkbox"/> $x = 7 \pm \sqrt{32}$</p> <p data-bbox="1125 604 1360 649"><input type="checkbox"/> $x = \pm \sqrt{65}$</p> <p data-bbox="1125 669 1297 714"><input type="checkbox"/> $x = -1$</p> <p data-bbox="1125 734 1272 779"><input type="checkbox"/> $x = 3$</p> <p data-bbox="1125 799 1297 844"><input type="checkbox"/> $x = 11$</p> <p data-bbox="1125 863 1297 909"><input type="checkbox"/> $x = 15$</p>