

Name : _____

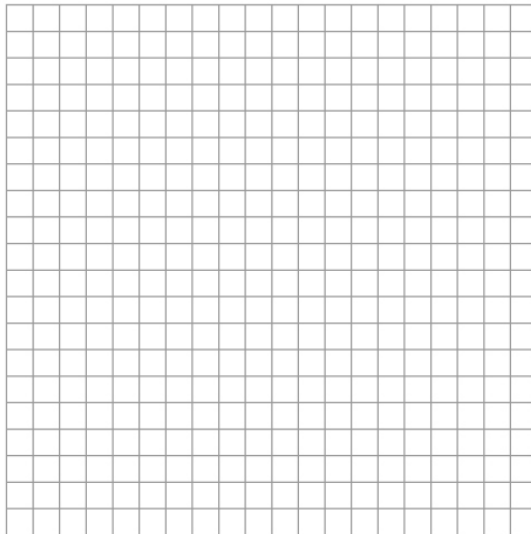
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Characteristics of Quadratic Functions

Graph the given functions by completing the table. Also determine the vertex, axis of symmetry, and x - and y -intercepts

① $f(x) = -x^2 - 4x + 12$

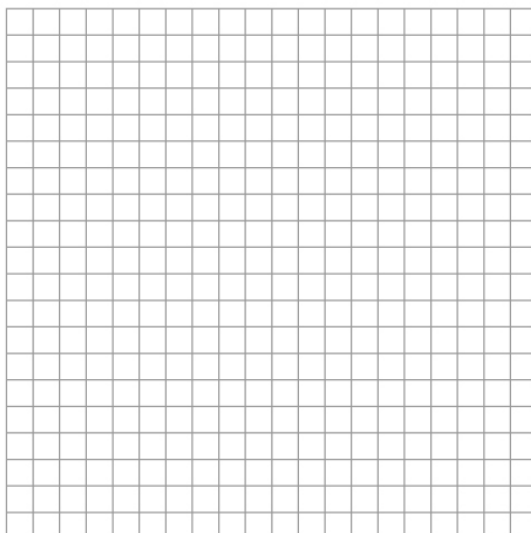
x	y



Characteristics	Value
Vertex	
Maximum/ Minimum	
Axis of Symmetry	
x -intercepts	
y -intercepts	

② $y = (x - 2)^2$

x	y



Characteristics	Value
Vertex	
Maximum/ Minimum	
Axis of Symmetry	
x -intercepts	
y -intercepts	

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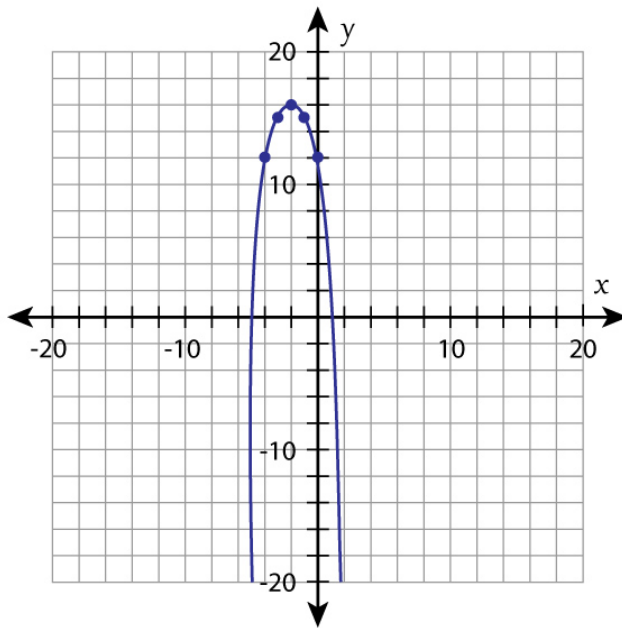
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Characteristics of Quadratic Functions

Answers

① $f(x) = -x^2 - 4x + 12$

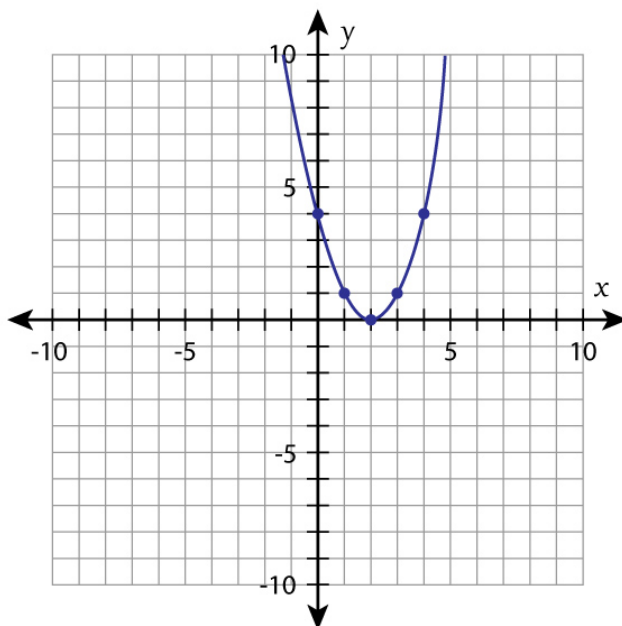
x	y
-4	12
-3	15
-2	16
-1	15
0	12



Characteristics	Value
Vertex	$(-2, 16)$
Maximum/Minimum	Maximum
Axis of Symmetry	$x = -2$
x-intercepts	$(-6, 0)(2, 0)$
y-intercepts	$(0, 12)$

② $y = (x - 2)^2$

x	y
0	4
1	1
2	0
3	1
4	4



Characteristics	Value
Vertex	$(2, 0)$
Maximum/Minimum	Minimum
Axis of Symmetry	$x = 2$
x-intercepts	$(2, 0)$
y-intercepts	$(0, 4)$