

## Graphing Quadratics Homework

For each question, state the axis of symmetry, vertex, y-intercept, Direction of Opening, max or min, roots or zero's (x-intercepts).

1.  $y = x^2 - 4x + 8$

4.  $y = -x^2 + 6x - 5$

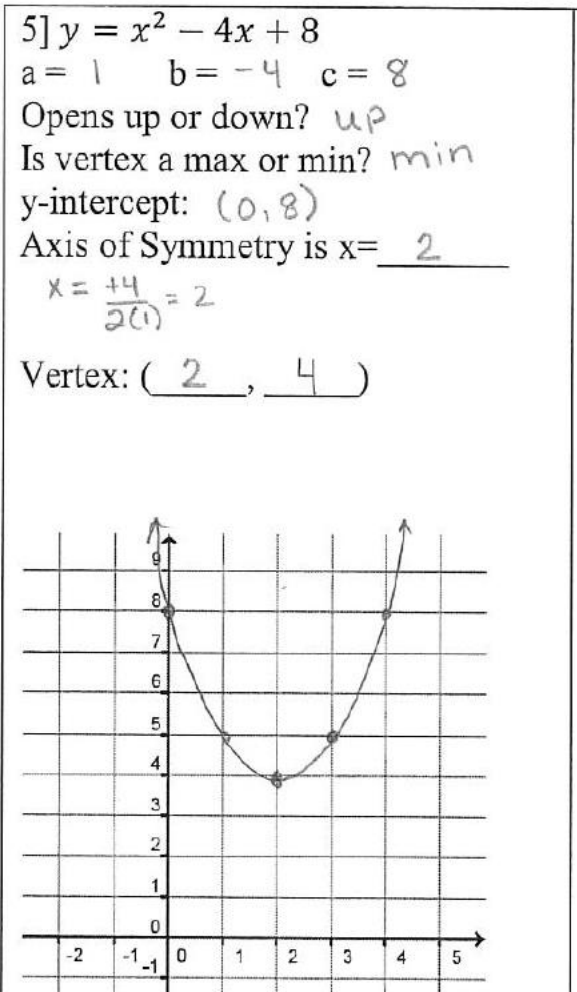
2.  $y = x^2 + 8x + 15$

5.  $y = -x^2 - 10x - 26$

3.  $y = x^2 + 12x + 38$

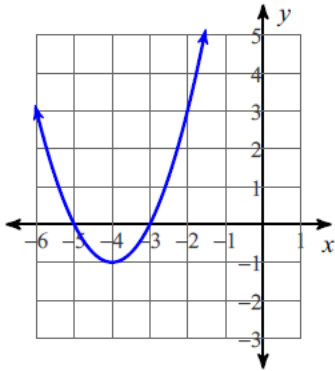
### Answers

1.

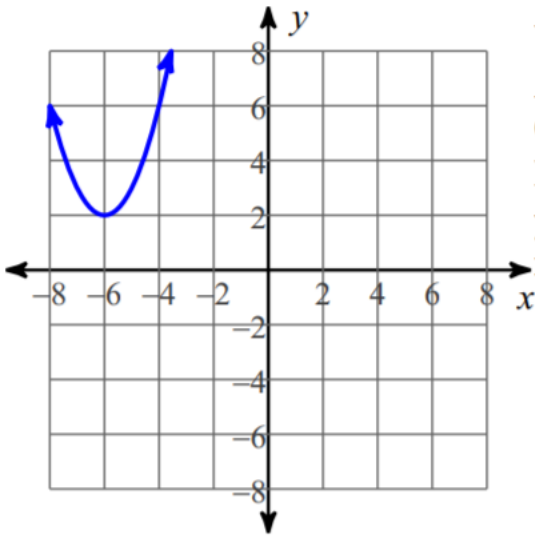


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2.

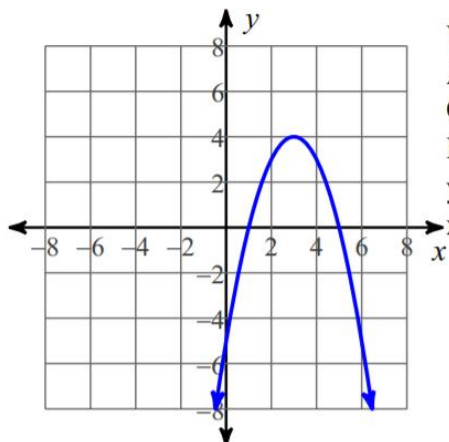


3.



Vertex:  $(-6, 2)$   
Axis of Sym.:  $x = -6$   
Opens: Up  
Min value = 2  
y-int: 38  
x-int: None

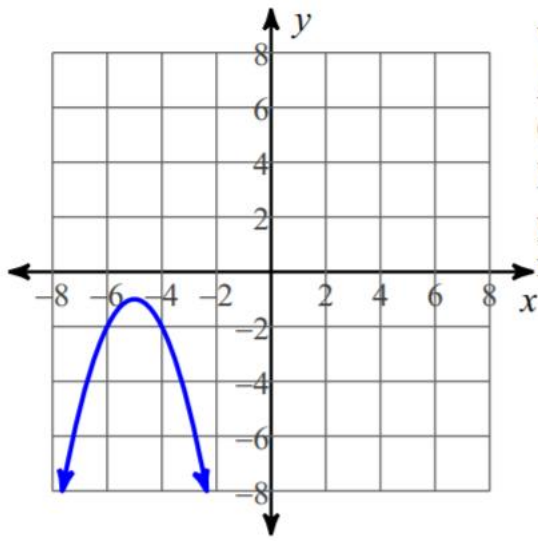
4.



Vertex:  $(3, 4)$   
Axis of Sym.:  $x = 3$   
Opens: Down  
Max value = 4  
y-int: -5  
x-int: 5 and 1

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5.



Vertex:  $(-5, -1)$   
Axis of Sym.:  $x = -5$   
Opens: Down  
Max value =  $-1$   
y-int:  $-26$   
x-int: None