

Name: _____ Hr: _____

3.3B Writing Quadratic Equations Given the Zeros (roots, solutions, x intercepts) or a Graph

Write the quadratic equation in standard form when given the solutions.

1. $x = 4, 1$

2. $x = -5, -2$

3. $x = 7, 0$

4. $x = \frac{1}{2}, 8$

5. $x = \frac{3}{5}, 0$

6. $x = \frac{2}{3}, -2$

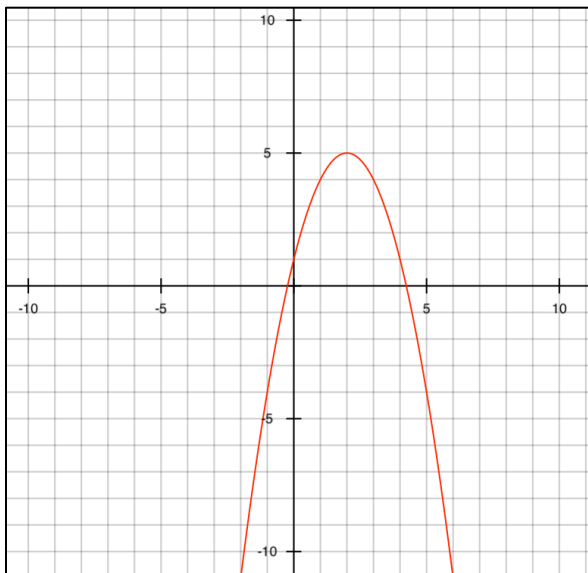
7. $x = -3, 1$

8. $x = -\frac{1}{3}, 2$

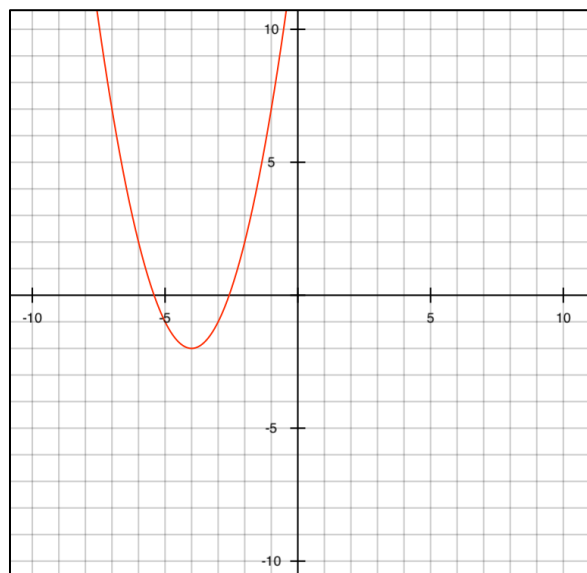
9. $x = -3, -3$

Write a quadratic equation given the graphs below.

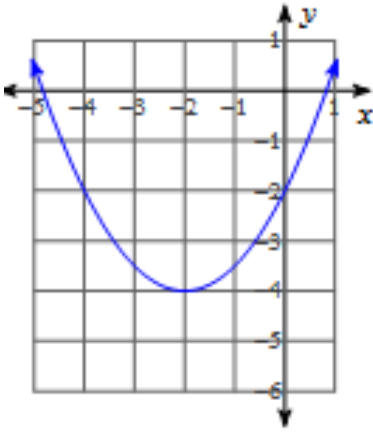
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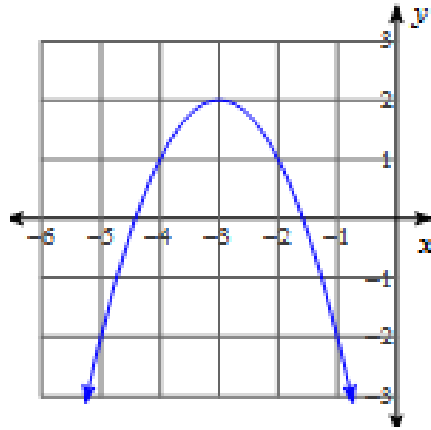
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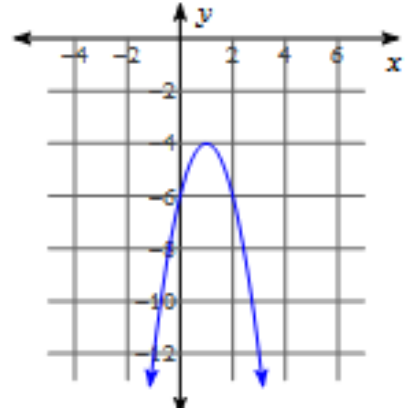
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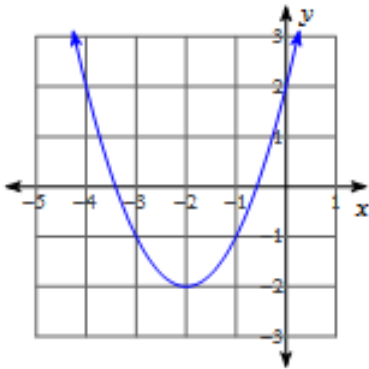
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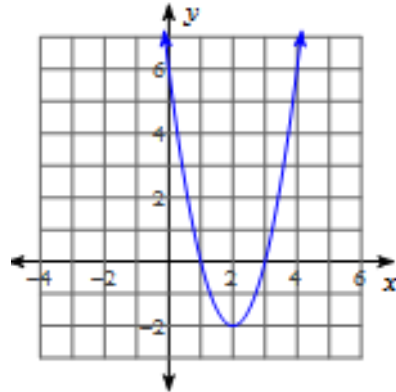
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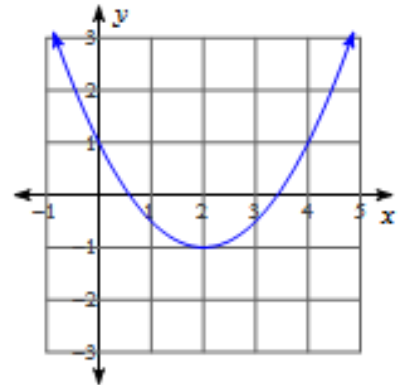
14.



15.



16.



17. Write an equation given the following points:

$$(-1, -12), (0, -6), (3, 0)$$

18. Write an equation given:

$$\text{Vertex: } (-1, 5) \text{ and x-intercept of } 3$$