Secondary II- Unit 3 Name_____

Lesson 2- Solving Quadratics by Graphing

Date_____ Period____

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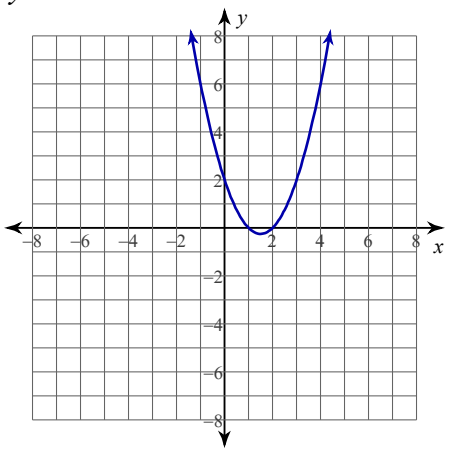
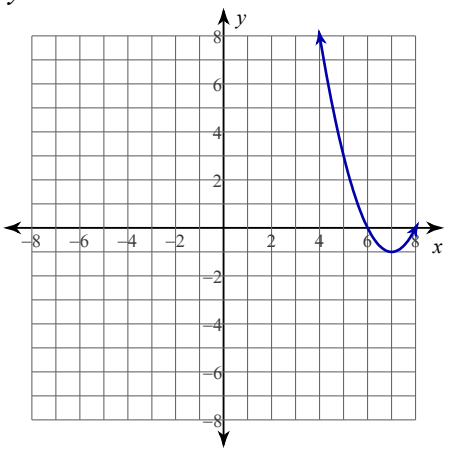
Solve each equation by using the given graph.

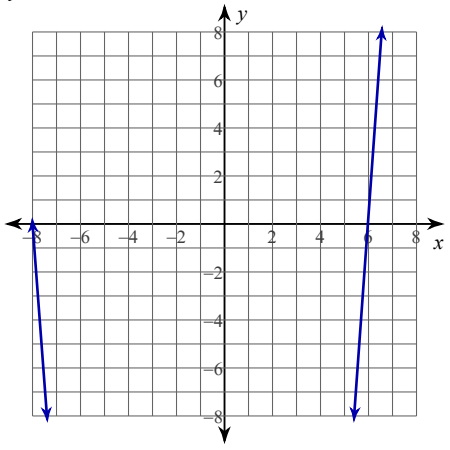
1) $y = x^2 - 3x + 2$



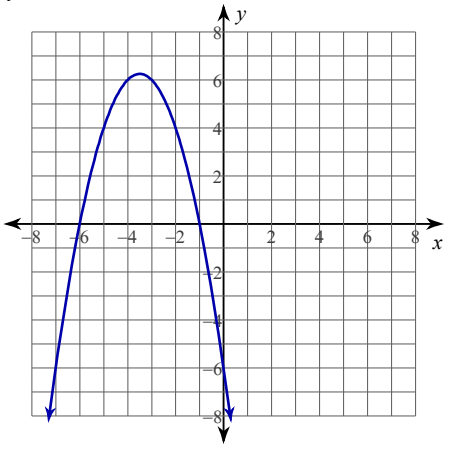
2) $y = x^2 - 14x + 48$



3) $y = x^2 + 2x - 48$



4) $y = -x^2 - 7x - 6$



Solve each equation by graphing by hand.

5) $k^2 - 11k + 24 = 0$

6) $x^2 - 5x - 14 = 0$

7) $n^2 - n - 30 = 0$

8) $a^2 - 7a = 0$

9) $x^2 - 11x + 19 = -5$

10) $m^2 - 5m + 4 = -2$

11) $x^2 + x - 52 = 4$

12) $n^2 + 3 = 4$

Solve each equation by using a graphing utility.

13) $5p^2 - 18p - 27 = 8$

14) $6n^2 + 11n + 2 = 4$

15) $2x^2 - 5x - 8 = -8$

16) $6b^2 + 5b - 27 = -6$

17) $2n^2 - 3n = 2$

18) $11r^2 - 7r + 5 = 8r^2 + 5$

19) $7x^2 - 30 = -37x$

20) $7b^2 + 33b - 30 = 4b$

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Answers to Lesson 2- Solving Quadratics by Graphing (ID: 1)

1) 1, 2
2) 6, 8
3) 6, −8
4) −1, −6
5) $\{3, 8\}$
6) $\{7, -2\}$
7) $\{-5, 6\}$
8) $\{7, 0\}$
9) $\{3, 8\}$
10) $\{3, 2\}$
11) $\{7, -8\}$
12) $\{-1, 1\}$
13) $\left\{-\frac{7}{5}, 5\right\}$
14) $\left\{\frac{1}{6}, -2\right\}$
15) $\left\{\frac{5}{2}, 0\right\}$
16) $\left\{-\frac{7}{3}, \frac{3}{2}\right\}$
17) $\left\{-\frac{1}{2}, 2\right\}$
18) $\left\{\frac{7}{3}, 0\right\}$
19) $\left\{\frac{5}{7}, -6\right\}$
20) $\left\{\frac{6}{7}, -5\right\}$

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