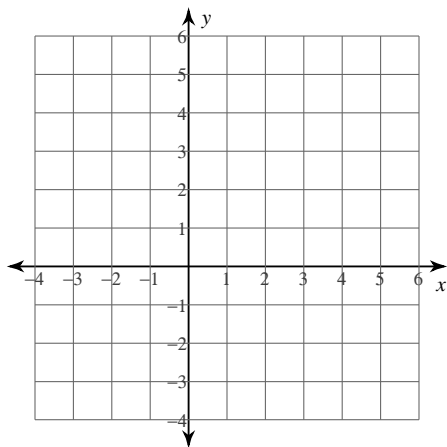


Assignment

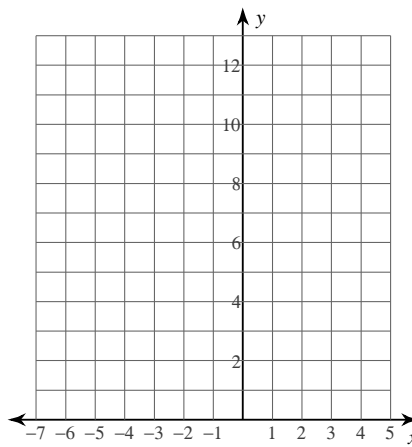
© 2013 Kuta Software LLC. All rights reserved.

Sketch the graph of each function.

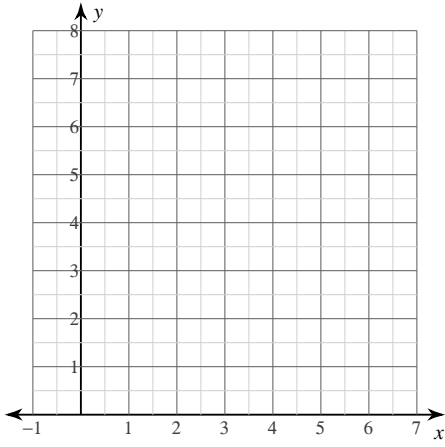
1) $y > 2x^2 - 4x - 1$



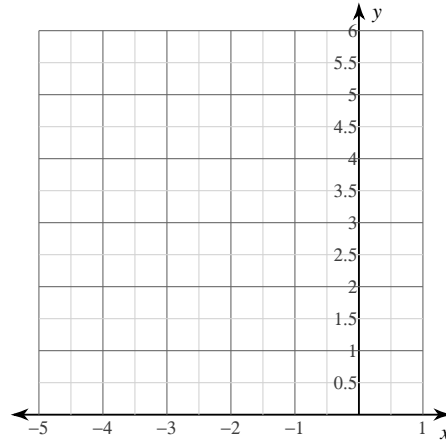
2) $y \leq 2x^2 + 12x + 22$



3) $y < (x - 3)^2 + 3$



4) $y < (x + 2)^2 + 1$



Solve each equation with the quadratic formula.

5) $4r^2 = 5 - 3r$

6) $k^2 - k = 42$

7) $10a^2 = -1$

8) $9x^2 - 6x = 11$

$$9) 8m^2 - 5m = 8$$

$$10) 3n^2 = -9 + 8n$$

$$11) 8x^2 = 14 - 8x$$

$$12) 2p^2 = -6$$

Solve each equation by factoring.

$$13) 4n^2 + 8n = 0$$

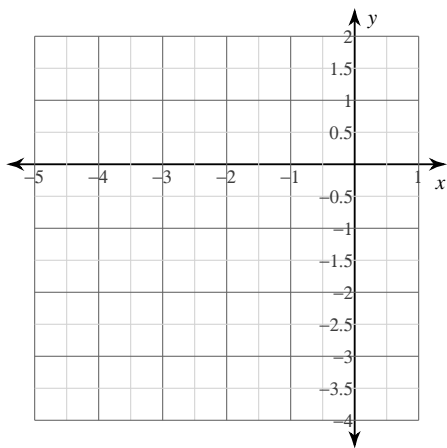
$$14) 8b^2 + 168 = -80b$$

$$15) v^2 + 4v = -4$$

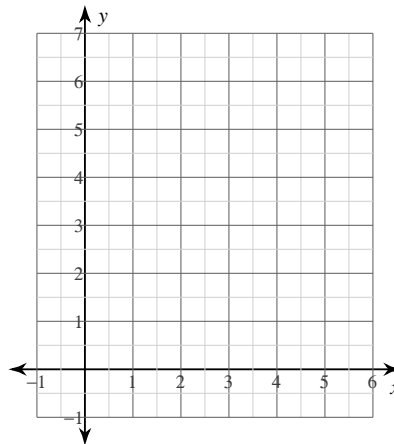
$$16) x^2 + 14 = -9x$$

Sketch the graph of each function.

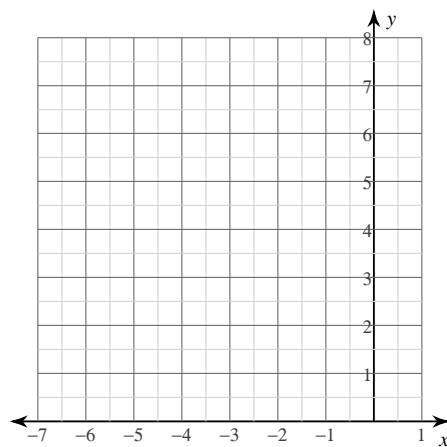
17) $y = -x^2 - 4x - 3$



18) $y = \frac{1}{2}(x - 4)^2 + 3$

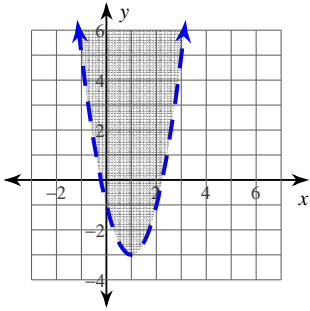


19) $y - 3 = (x + 1)^2$

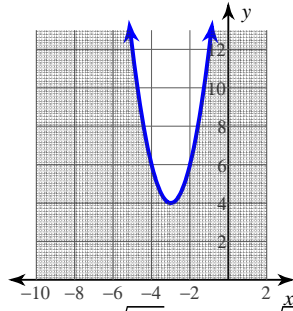


Answers to Assignment (ID: 1)

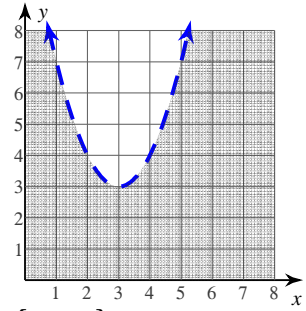
1)



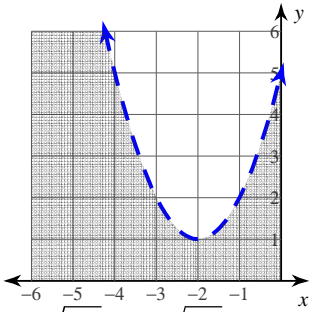
2)



3)



4)



5) $\left\{ \frac{-3 + \sqrt{89}}{8}, \frac{-3 - \sqrt{89}}{8} \right\}$

6) $\{7, -6\}$

7) $\left\{ \frac{i\sqrt{10}}{10}, -\frac{i\sqrt{10}}{10} \right\}$

8) $\left\{ \frac{1 + 2\sqrt{3}}{3}, \frac{1 - 2\sqrt{3}}{3} \right\}$

9) $\left\{ \frac{5 + \sqrt{281}}{16}, \frac{5 - \sqrt{281}}{16} \right\}$

10) $\left\{ \frac{4 + i\sqrt{11}}{3}, \frac{4 - i\sqrt{11}}{3} \right\}$

11) $\left\{ \frac{-1 + 2\sqrt{2}}{2}, \frac{-1 - 2\sqrt{2}}{2} \right\}$

12) $\{i\sqrt{3}, -i\sqrt{3}\}$

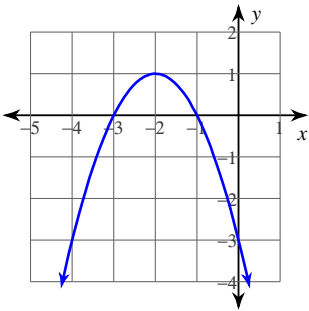
13) $\{-2, 0\}$

14) $\{-7, -3\}$

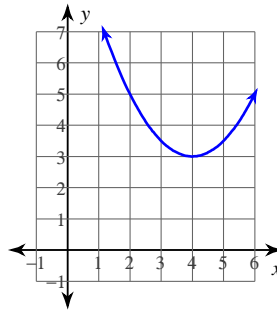
15) $\{-2\}$

16) $\{-7, -2\}$

17)



18)



19)

