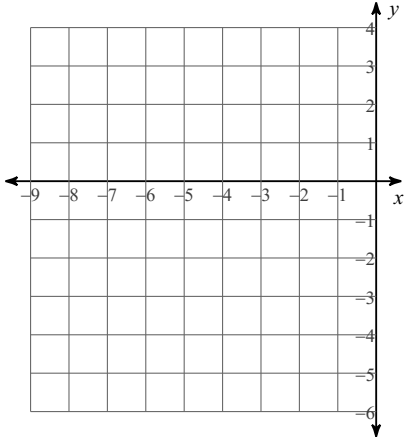


14.2 Homework

Sketch the graph of each function.

1) $y = -2(x + 4)^2 + 3$



Solve each equation by taking square roots.

2) $2x^2 - 6 = 166$

3) $-4 + 25a^2 = -3$

Solve each equation by completing the square.

4) $p^2 + 20p + 46 = -10$

Solve each equation by factoring.

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

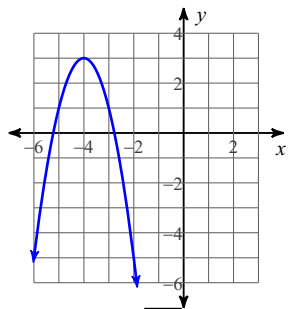
6) $x^2 + 7x = 8$

7) $7x^2 + 19x = -10$

8) $5x^2 = 3 - 2x$

Answers to 14.2 Homework

1)



2) $\{\sqrt{86}, -\sqrt{86}\}$

3) $\left\{\frac{1}{5}, -\frac{1}{5}\right\}$

4) $\{-10 + 2\sqrt{11}, -10 - 2\sqrt{11}\}$

5) $\{-5, 1\}$

6) $\{-8, 1\}$

7) $\left\{-\frac{5}{7}, -2\right\}$

8) $\left\{\frac{3}{5}, -1\right\}$