

Answers to 4.4 Quadratic Formula

1) When you can't factor and it's not easy to complete the square. Or any time.

3) $\{2, -7\}$

5) $\left\{\frac{9}{2}, -4\right\}$

7) $\left\{\frac{7 + 3\sqrt{41}}{10}, \frac{7 - 3\sqrt{41}}{10}\right\}$

9) $\left\{\frac{9 + \sqrt{337}}{16}, \frac{9 - \sqrt{337}}{16}\right\}$

11) $\left\{\frac{-7 + 3\sqrt{17}}{4}, \frac{-7 - 3\sqrt{17}}{4}\right\}$

13) When you simplify the square root.

15) 64

17) 289