

## Solving Quadratic Equations Using the Quadratic Formula Practice

**Solve each equation with the quadratic formula.**

1)  $5r^2 + 10 = 2r$

2)  $5n^2 + 2 = -4n$

3)  $7n^2 - 6n = -5$

4)  $x^2 = 65 - 8x$

5)  $3v^2 = 6 - 7v$

6)  $8n^2 + 2 = -n$

## Answers to

$$1) \left\{ \frac{1+7i}{5}, \frac{1-7i}{5} \right\}$$

$$4) \{5, -13\}$$

$$2) \left\{ \frac{-2+i\sqrt{6}}{5}, \frac{-2-i\sqrt{6}}{5} \right\}$$

$$5) \left\{ \frac{2}{3}, -3 \right\}$$

$$3) \left\{ \frac{3+i\sqrt{26}}{7}, \frac{3-i\sqrt{26}}{7} \right\}$$

$$6) \left\{ \frac{-1+3i\sqrt{7}}{16}, \frac{-1-3i\sqrt{7}}{16} \right\}$$