

## Solving Quadratic Equations by Factoring Practice

**Solve each equation by factoring.**

1)  $0 = -n^2 - 15 + 8n$

2)  $-24 - 2x = -x^2$

3)  $x^2 = -3x + 28$

4)  $0 = -24 - 43a - 5a^2$

5)  $40 = -81m - 35m^2$

6)  $7b^2 - 52b = 32$

7)  $7p^2 = -24 + 59p$

8)  $35n^2 - 20 = -3n$

9)  $49 + 21v = -2v^2$

10)  $14x^2 = 15x + 9$

## Answers to

$$1) \{3, 5\}$$

$$2) \{6, -4\}$$

$$3) \{-7, 4\}$$

$$4) \left\{-\frac{3}{5}, -8\right\}$$

$$5) \left\{-\frac{8}{5}, -\frac{5}{7}\right\}$$

$$6) \left\{-\frac{4}{7}, 8\right\}$$

$$7) \left\{\frac{3}{7}, 8\right\}$$

$$8) \left\{\frac{5}{7}, -\frac{4}{5}\right\}$$

$$9) \left\{-\frac{7}{2}, -7\right\}$$

$$10) \left\{-\frac{3}{7}, \frac{3}{2}\right\}$$