

SOLVE BY FACTORING

Date _____

Solve each equation by factoring.

1) $7n^2 + 63n + 56 = 0$

- A) $\{8, 1\}$ *B) $\{-8, -1\}$
C) $\{6, -7\}$ D) $\{-5, 1\}$

2) $r^2 - 9r + 8 = 0$

- A) $\{-7, -2\}$ *B) $\{1, 8\}$
C) $\{-3, -7\}$ D) $\{8\}$

3) $k^2 + 2k - 48 = 0$

- A) $\{-8, -2\}$ *B) $\{-8, 6\}$
C) $\{7, -4\}$ D) $\{-8, 8\}$

4) $x^2 - 6x - 7 = 0$

- A) $\{-4, 8\}$ B) $\{1, -7\}$
C) $\{6, 7\}$ *D) $\{-1, 7\}$

5) $x^2 + 5x - 24 = 0$

- A) $\{-6, -3\}$ B) $\{-8, 7\}$
*C) $\{-8, 3\}$ D) $\{-2, -7\}$

6) $x^2 + 9x + 14 = 0$

- A) $\{2, -7\}$ *B) $\{-2, -7\}$
C) $\{2, 7\}$ D) $\{-2, 0\}$

7) $5r^2 - 5r = 0$

 $\{1, 0\}$

8) $5x^2 - 65x + 200 = 0$

 $\{5, 8\}$

$$9) x^2 + 2x - 48 = 0$$

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

$$10) k^2 - 3k + 2 = 0$$

$$\{2, 1\}$$

$$11) x^2 + 7x = 0$$

$$\{-7, 0\}$$

$$12) x^2 + 8x + 15 = 0$$

$$\{-3, -5\}$$

$$13) 25x^2 - 15x = 0$$

$$\left\{\frac{3}{5}, 0\right\}$$

$$14) 18r^2 + 132r - 96 = 0$$

$$\left\{\frac{2}{3}, -8\right\}$$

$$15) 12n^2 + 56n - 196 = 0$$

$$\left\{\frac{7}{3}, -7\right\}$$

$$16) 21b^2 + 66b + 9 = 0$$

$$\left\{-\frac{1}{7}, -3\right\}$$

$$17) 196v^2 + 168v + 20 = 0$$

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

$$18) 4x^2 - 26x + 40 = 0$$

$$\left\{\frac{5}{2}, 4\right\}$$