

**Solve by Factoring**

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by factoring.**

1)  $n^2 + n = 0$

2)  $x^2 - 7x + 12 = 0$

3)  $n^2 - 4n - 12 = 0$

4)  $r^2 - 5r + 4 = 0$

5)  $8n^2 = -16n + 280$

6)  $n^2 = 3n$

7)  $x^2 - 10x = -24$

8)  $3x^2 + 144 = 42x$

9)  $b^2 - 4b + 1 = -2$

10)  $3x^2 - 24x + 16 = -5$

11)  $v^2 - 4v = 12$

12)  $8p^2 - 8p - 99 = -3$

## Solve by Factoring

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by factoring.**

1)  $n^2 + n = 0$

 $\{-1, 0\}$ 

2)  $x^2 - 7x + 12 = 0$

 $\{4, 3\}$ 

3)  $n^2 - 4n - 12 = 0$

 $\{-2, 6\}$ 

4)  $r^2 - 5r + 4 = 0$

 $\{4, 1\}$ 

5)  $8n^2 = -16n + 280$

 $\{5, -7\}$ 

6)  $n^2 = 3n$

 $\{3, 0\}$ 

7)  $x^2 - 10x = -24$

 $\{4, 6\}$ 

8)  $3x^2 + 144 = 42x$

 $\{6, 8\}$ 

9)  $b^2 - 4b + 1 = -2$

 $\{3, 1\}$ 

10)  $3x^2 - 24x + 16 = -5$

 $\{7, 1\}$ 

11)  $v^2 - 4v = 12$

 $\{6, -2\}$ 

12)  $8p^2 - 8p - 99 = -3$

 $\{4, -3\}$