

## Solve by Factoring

**Solve each equation by factoring.**

1)  $4n(7n - 3) = 0$

2)  $(x + 4)(x + 3) = 0$

3)  $(5a + 7)(a + 6) = 0$

4)  $7b(b + 3) = 0$

5)  $3(5r - 8)(3r - 8) = 0$

6)  $(6n - 7)(2n - 5) = 0$

7)  $5(3r + 2)(r - 4) = 0$

8)  $k(k - 1) = 0$

9)  $2x^2 - 4x - 70 = 0$

10)  $x^2 - 4x - 12 = 0$

11)  $6x^2 - 24 = 0$

12)  $n^2 - 3n - 40 = 0$

$$13) x^2 + 3x = 0$$

$$14) 5m^2 + 37m + 42 = 0$$

$$15) 8x^2 + 19x + 6 = 0$$

$$16) 2n^2 + n - 21 = 0$$

$$17) 3x^2 - 13x + 12 = 0$$