

## 10-3 Solving Quadratic Equations by Factoring

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

**Solve each equation by factoring.**

1)  $(x + 4)(8x + 5) = 0$

2)  $(x - 6)(3x + 8) = 0$

3)  $(v + 4)(v - 8) = 0$

4)  $(x - 7)(5x + 1) = 0$

5)  $a^2 + 3a - 28 = 0$

6)  $v^2 - 12v + 35 = 0$

7)  $x^2 - 6x - 16 = 0$

8)  $b^2 - 9b + 14 = 0$

9)  $n^2 - 6n = 0$

10)  $x^2 - 3x - 16 = -6$

$$11) p^2 - 7p - 6 = -6$$

$$12) x^2 - 8x + 17 = 5$$

$$13) x^2 - x - 5 = -5$$

$$14) r^2 + r - 25 = 5$$

$$15) r^2 + 6r = 0$$

$$16) r^2 = 42 + r$$

$$17) m^2 = -7 - 8m$$

$$18) m^2 + 30 = -11m$$

$$19) n^2 = 5n + 14$$

$$20) m^2 + 6m = -8$$