

Name \_\_\_\_\_

Date \_\_\_\_\_

**LESSON 9.5: Practice B**

**Factor the trinomial.**

1.  $x^2 + 8x + 7$

2.  $b^2 - 7b + 10$

3.  $w^2 - 12w - 13$

4.  $p^2 + 10p + 25$

5.  $m^2 - 10m + 24$

6.  $y^2 - 5y - 24$

7.  $a^2 + 13a + 36$

8.  $n^2 + 2n - 48$

9.  $z^2 - 14z + 40$

**Solve the equation.**

10.  $y^2 + 17y + 72 = 0$

11.  $a^2 - 9a - 36 = 0$

12.  $w^2 - 13w + 42 = 0$

13.  $m^2 - 5m - 14 = 0$

14.  $x^2 + 11x + 24 = 0$

15.  $n^2 - 12n + 27 = 0$

16.  $d^2 + 5d - 50 = 0$

17.  $p^2 + 16p + 48 = 0$

18.  $z^2 - z - 30 = 0$

**Find the zeros of the polynomial function.**

19.  $f(x) = x^2 - 5x - 36$

20.  $g(x) = x^2 + 8x - 20$

21.  $h(x) = x^2 - 11x + 24$

22.  $f(x) = x^2 + 11x + 28$

23.  $g(x) = x^2 + 11x - 12$

24.  $h(x) = x^2 + 3x - 18$

**Solve the equation.**

**25.**  $x(x + 17) = -60$

**26.**  $p(p - 4) = 32$

**27.**  $w(w + 8) = -15$

**28.**  $n(n + 6) = 7$

**29.**  $s^2 - 3(s + 2) = 4$

**30.**  $d^2 + 18(d + 4) = -9$