

**9-2 Skills Practice****Factoring Using the Distributive Property****Factor each polynomial.**

1.  $7x + 49$

2.  $8m - 6$

3.  $5a^2 - 15$

4.  $10q - 25q^2$

5.  $8ax - 56a$

6.  $81r + 48rs$

7.  $t^2h + 3t$

8.  $a^2b^2 + a$

9.  $x + x^2y + x^3y^2$

10.  $3p^2q^2 + 6pq + p$

11.  $4a^2b^2 + 16ab + 12a$

12.  $10m^3n^3 - 2mn^2 + 14mn$

13.  $x^2 + 3x + x + 3$

14.  $b^2 - 2b + 3b - 6$

15.  $2s^2 + 2s + 3s + 3$

16.  $2a^2 - 4a + a - 2$

17.  $6t^2 - 4t - 3t + 2$

18.  $9x^2 - 3xy + 6x - 2y$

**Solve each equation. Check your solutions.**

19.  $x(x - 8) = 0$

20.  $b(b + 12) = 0$

21.  $(m - 3)(m + 5) = 0$

22.  $(a - 9)(2a + 1) = 0$

23.  $x^2 - 5x = 0$

24.  $y^2 + 3y = 0$

25.  $3a^2 = 6a$

26.  $2x^2 = 3x$