Practice A 7.4

In Exercises 1–9, solve the equation.

2. 6d(d+8) = 0 **3.** -3t(t+7) = 01. x(x-5) = 0**4.** (3x+6)(2x-10) = 0 **5.** (p+3)(5p+1) = 0 **6.** $(3q+2)^2 = 0$ **7.** $(y-10)^2 = 0$ **8.** t(t+4)(t-5) = 0 **9.** 7u(u-9)(2u-5) = 0

In Exercises 10 and 11, find the x-coordinates of the points where the graph crosses the x-axis.





In Exercises 12–14, factor the polynomial.

14. $8x^3 - 20x^2$ **12.** $4t^2 + 12t$ **13.** $10k^3 - 15k^2$

In Exercises 15–17, solve the equation.

15. $3t^2 - t = 0$

16. $5y^2 + 10y = 0$ **17.** $21n + 12n^2 = 0$

18. Describe and correct the error in solving the equation.

 $15t^{2} + 5t = 0$ 5t(3t) = 05t = 0 and 3t = 0 $t = 0 \qquad t = 0$

19. The height y of a jumping frog can be modeled by $y = -16x^2 + 4x$, where x is the time (in seconds) since the frog jumped from the ground. Find the roots of the equation when y = 0. Explain what the roots mean in this situation.