- 3. $y = \frac{1}{5}x$; The tip increases \$0.20 for each dollar spent on the meal.
- **4.** $y = -\frac{1}{30}x + 12$; The fuel decreases $\frac{1}{30}$ gallon for every mile driven.
- 5. y = 50x + 100; The balance increases \$50 each week.
- **6.** $y = \frac{3}{2}x$; The height increases 1.5 feet each year.
- 7. y = 55x; The number of words increases by 55 each minute.
- **8.** y = -60x + 480; The volume decreases 60 cubic feet per hour.
- **9.** Greenville Journal; 5 lines
- **10. a.** $y 212 = \frac{9}{5}(x 100)$ or $y = \frac{9}{5}x + 32$
 - **b.** 71.6°F
 - **c.** $y = \frac{5}{9}(x 32)$
 - d. about 28.33°C
- **26.** a. $-\frac{5}{4}$; the decrease in balance per month
 - **b.** domain: $0 \le x \le 24$, range: $0 \le y \le 3000$; The domain represents the term of the balance of the loan from start to finish, and the range represents the balance of the loan.
 - **c.** \$1500
- **28.** Sample answer: A: (0, 4), B: (4, 0), C: (0, 0); line connecting A and C: x = 0; line connecting B and C: y = 0
- **30.** D
- **31.** about 2.2 mi