

## 2.2 Linear Relations and Functions

NAME \_\_\_\_\_ DATE \_\_\_\_\_ Class \_\_\_\_\_

**A) State whether each equation or function is a linear function. Write *yes* or *no*. Explain.**

1.  $6y - x = 7$

2.  $9x = \frac{18}{y}$

3.  $f(x) = 2 - \frac{x}{11}$

4.  $2y - \frac{x}{6} - 4 = 0$

5.  $1.6x - 2.4y = 4$

6.  $0.2x = 100 - \frac{0.4}{y}$

7.  $f(x) = 4 - x^3$

8.  $f(x) = \frac{4}{x}$

9.  $2yx - 3y + 2x = 0$

**B) Write each equation in standard form. Identify *A*, *B*, and *C*.**

1.  $2x = 4y - 1$

2.  $5y = 2x + 3$

3.  $3x = -5y + 2$

4.  $18y = 24x - 9$

5.  $\frac{3}{4}y = \frac{2}{3}x + 5$

6.  $6y - 8x + 10 = 0$

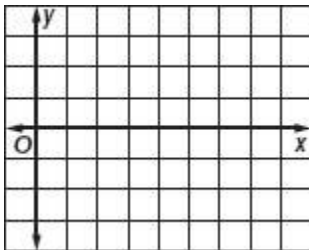
7.  $0.4x + 3y = 10$

8.  $x = 4y - 7$

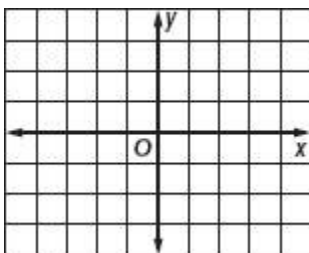
9.  $2y = 3x + 6$

**C) Find the x-intercept and the y-intercept of the graph of each equation. Then graph the equation using the intercepts.**

1.  $2x + 7y = 14$



2.  $5y - x = 10$



3.  $2.5x - 5y + 7.5 = 0$

