

NAME \_\_\_\_\_

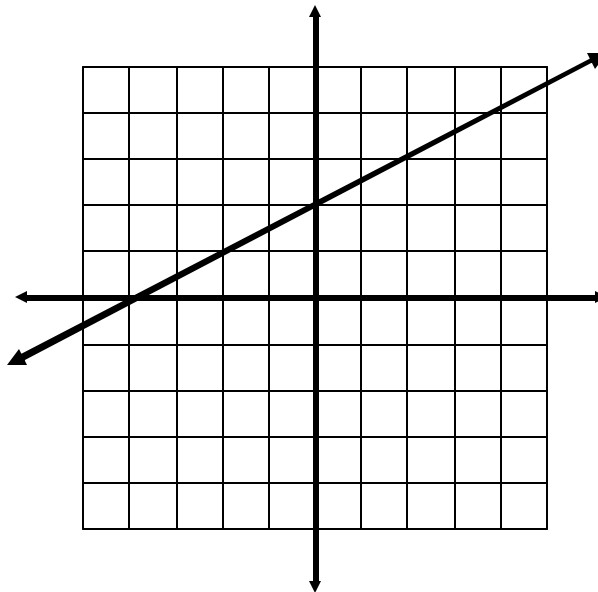
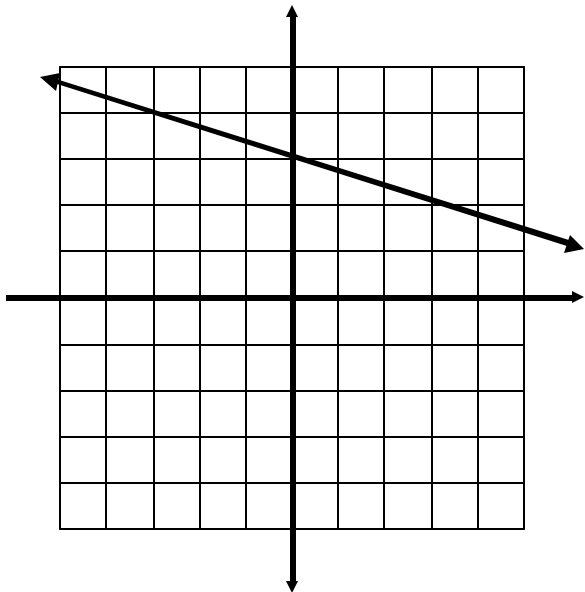
Date \_\_\_\_\_ Period \_\_\_\_\_

# Section 4.3

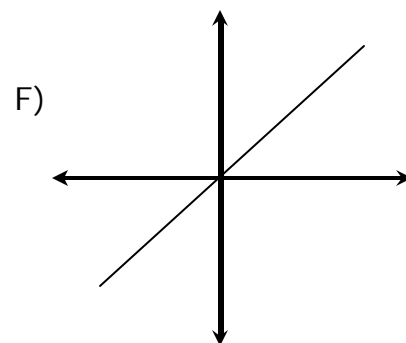
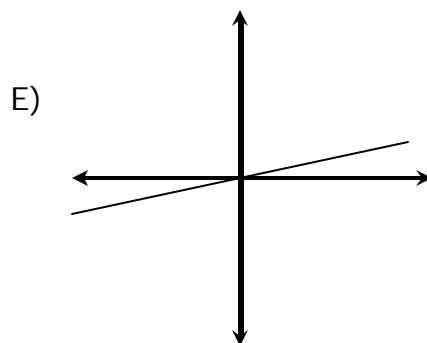
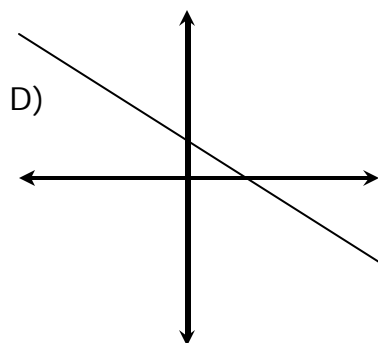
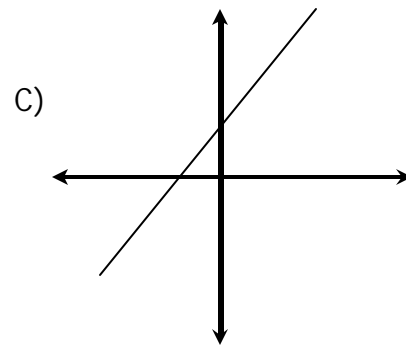
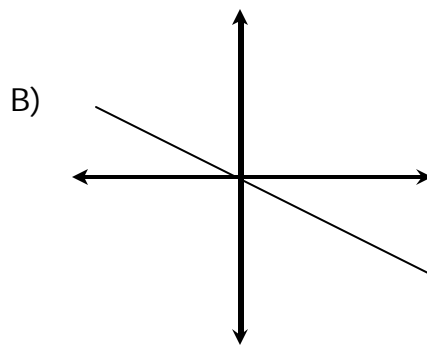
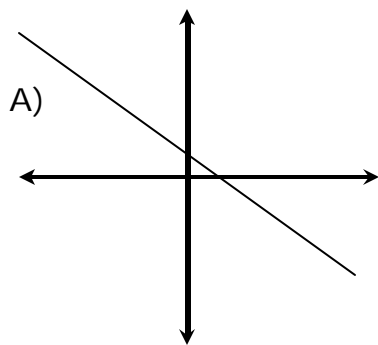
## ALGEBRA

### Graphs and Direct Variation: Practice A

1. Write the equation of the lines shown below by finding the slope and y-int.



2. Determine which graphs below represent a relationship where  $y$  varies directly with  $x$ .



3. Which of the equations below represents a relationship where  $y$  varies directly with  $x$ ?

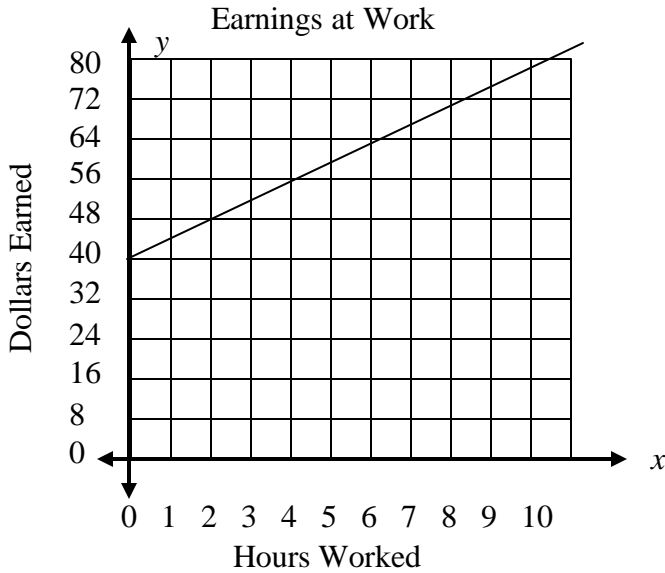
a.  $y = 5x - 2$

b.  $y^{x+1} = 2x - 2$

c.  $y = 3x$

d.  $y = 15x$

4. The graph below shows the amount of money earned over an 10-hour day.



Which of the following functions represents the relationship between hours worked and earnings?

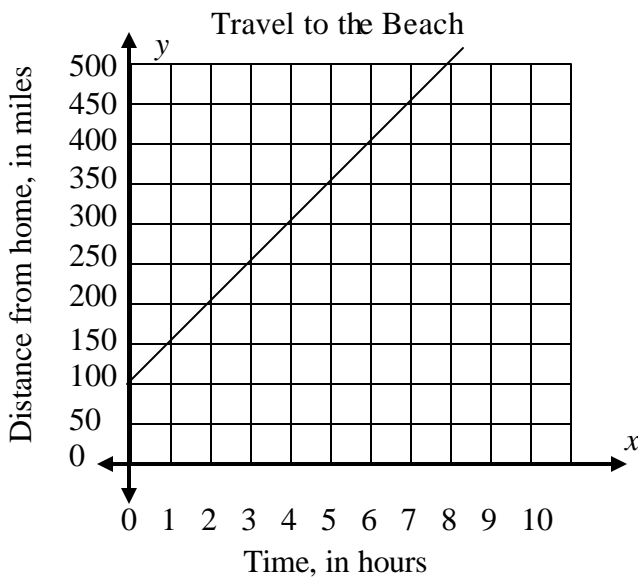
a)  $f(x) = x + 40$

b)  $f(x) = x - 40$

c)  $f(x) = 4x + 40$

d)  $f(x) = 4x - 40$

5. The graph below shows the distance a car traveled over a 10-hour trip



Which of the following functions represents the relationship between hours and distance traveled?

a)  $f(x) = 50x + 100$

b)  $f(x) = 100x + 50$

c)  $f(x) = 150x + 100$

d)  $f(x) = 50x + 500$

6. Which of the equations below represents a relationship where  $y$  varies directly with  $x$ ?

a.  $y = 3x$

b.  $x = 5y - 1$

c.  $y = 11x$

d.  $y = 12 - 2x$