

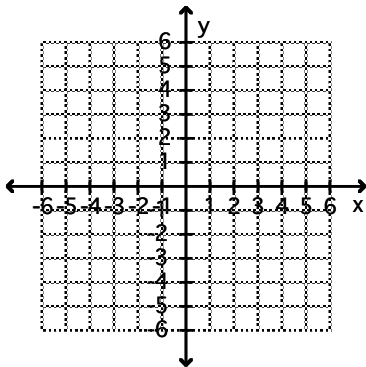
# Graph of Linear Functions

**MULTIPLE CHOICE.** Choose the one alternative that best completes the statement or answers the question.

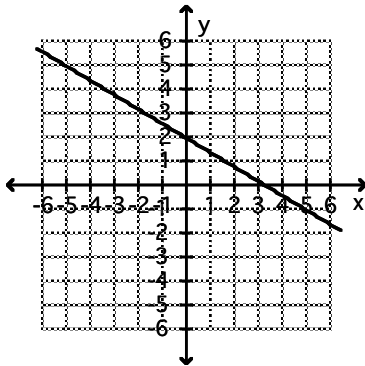
Graph the line whose equation is given.

1)  $y = \frac{3}{5}x + 2$

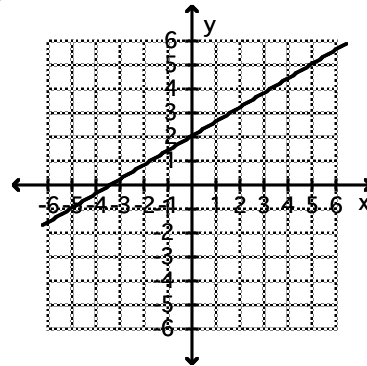
1) \_\_\_\_\_



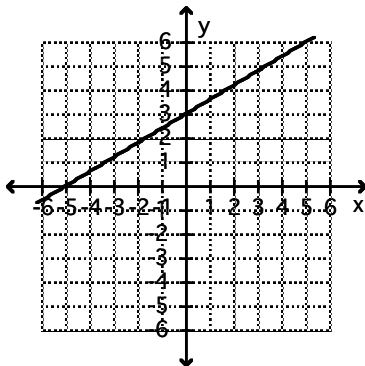
A)



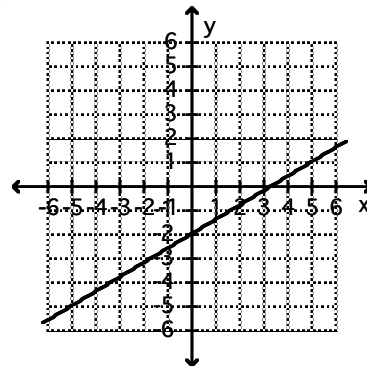
B)



C)

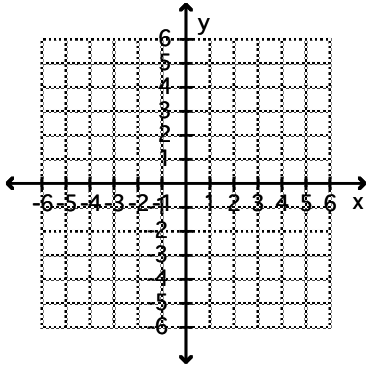


D)

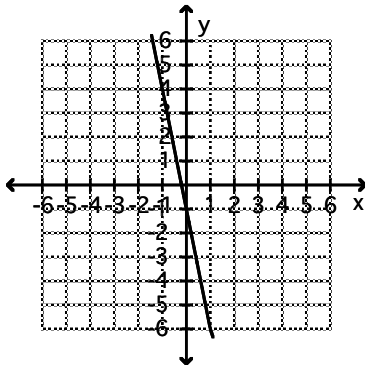


2)  $y = -\frac{2}{5}x - 1$

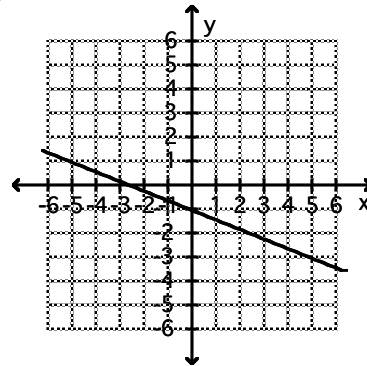
2) \_\_\_\_\_



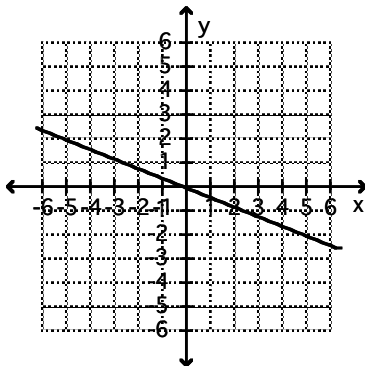
A)



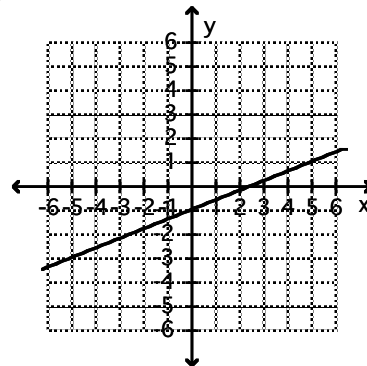
B)



C)



D)



**Find an equation for the described linear function.**

3) Through  $(0, -9)$  and parallel to  $-4x + y = 7$

3) \_\_\_\_\_

A)  $y = -4x + 9$

B)  $y = -4x - 9$

C)  $y = \frac{1}{4}x - 9$

D)  $y = 4x - 9$

**Find an equation for the line with the given properties.**

4) Parallel to the line  $y = -3x$ ; containing the point  $(8, 8)$

4) \_\_\_\_\_

A)  $y = -3x$

B)  $y = -3x + 32$

C)  $y - 8 = -3x - 8$

D)  $y = -3x - 32$

**Find an equation for the described linear function.**

5) Through  $(0, -5)$  and perpendicular to  $y = 6x + 4$

5) \_\_\_\_\_

A)  $y = \frac{1}{6}x - 5$

B)  $y = -\frac{1}{6}x + 5$

C)  $y = 6x - 5$

D)  $y = -\frac{1}{6}x - 5$

**Find an equation for the line with the given properties.**

6) Perpendicular to the line  $y = \frac{1}{9}x + 9$ ; containing the point  $(5, -4)$

6) \_\_\_\_\_

A)  $y = -9x + 41$

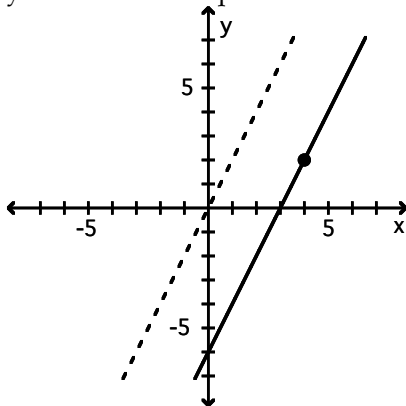
B)  $y = -\frac{1}{9}x - \frac{41}{9}$

C)  $y = -9x - 41$

D)  $y = 9x - 41$

7) The solid line L contains the point  $(4, 2)$  and is parallel to the dotted line whose equation is  $y = 2x$ . Give the equation for the line L in slope-intercept form.

7) \_\_\_\_\_



A)  $y - 2 = 2(x - 4)$

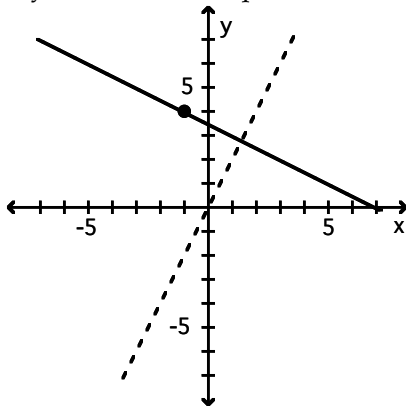
B)  $y = 2x - 6$

C)  $y = 2x + b$

D)  $y = 2x - 2$

8) The solid line L contains the point  $(-1, 4)$  and is perpendicular to the dotted line whose equation is  $y = 2x$ . Give the equation of line L in slope-intercept form.

8) \_\_\_\_\_



A)  $y - 4 = -\frac{1}{2}(x + 1)$

B)  $y - 4 = 2(x + 1)$

C)  $y = \frac{1}{2}x + \frac{7}{2}$

D)  $y = -\frac{1}{2}x + \frac{7}{2}$

Answer Key

Testname: GRAPH OF LINEAR FUNCTIONS

- 1) B
- 2) B
- 3) D
- 4) B
- 5) D
- 6) A
- 7) B
- 8) D