

- _____ 5. What is the equation $8x - 4y - 12 = 0$ in slope-intercept form?
- a. $y = -2x - 3$
 - b. $y = -2x + 3$
 - c. $y = 2x - 3$
 - d. $y = 2x + 3$
- _____ 6. Identify the slope and y -intercept of the relation represented by the equation $2x - 2y + 3 = 0$.
- a. slope: 1, y -intercept: $\frac{3}{2}$
 - b. slope: 1, y -intercept: $-\frac{3}{2}$
 - c. slope: -1 , y -intercept: $\frac{3}{2}$
 - d. slope: -1 , y -intercept: $-\frac{3}{2}$
- _____ 7. What are the slope and y -intercept of the relation represented by the equation $10x + 5y - 15 = 0$?
- a. slope: 2, y -intercept: 3
 - b. slope: 2, y -intercept: -3
 - c. slope: -2 , y -intercept: 3
 - d. slope: -2 , y -intercept: -3
- _____ 8. For the line $4x - 3y - 12 = 0$, which statement is true?
- a. The x -intercept is 3 and the y -intercept is -4 .
 - b. The x -intercept is 3 and the y -intercept is 4.
 - c. The x -intercept is 4 and the y -intercept is -3 .
 - d. The x -intercept is 4 and the y -intercept is 3.
- _____ 9. What is the slope of the line with an x -intercept of 4 and a y -intercept of -3 ?
- a. $-\frac{4}{3}$
 - b. $-\frac{3}{4}$
 - c. $\frac{3}{4}$
 - d. $\frac{4}{3}$

_____ 15. The equation of the line with slope $\frac{1}{3}$ that passes through the point $(0, -3)$ is

a. $y = \frac{1}{3}x + 9$

c. $y = \frac{1}{3}x - 9$

b. $y = \frac{1}{3}x + 3$

d. $y = \frac{1}{3}x - 3$

_____ 16. Identify the pair of perpendicular lines.

a. $y = \frac{1}{5}x + 2$

c. $y = \frac{2}{3}x + 1$

$y = \frac{1}{5}x + 1$

$y = -\frac{2}{3}x + 2$

b. $y = \frac{1}{5}x + 2$

d. $y = \frac{2}{3}x + 1$

$y = 5x + 1$

$y = -\frac{3}{2}x + 2$

_____ 17. What is the equation of the line that is perpendicular to the line $y = -3x + 2$ and passes through $(3, -1)$?

a. $y = \frac{1}{3}x$

c. $y = -\frac{1}{3}x$

b. $y = \frac{1}{3}x - 2$

d. $y = -\frac{1}{3}x - 2$

_____ 18. The slope of the line that is perpendicular to the line $y = \frac{2}{5}x - 3$ is

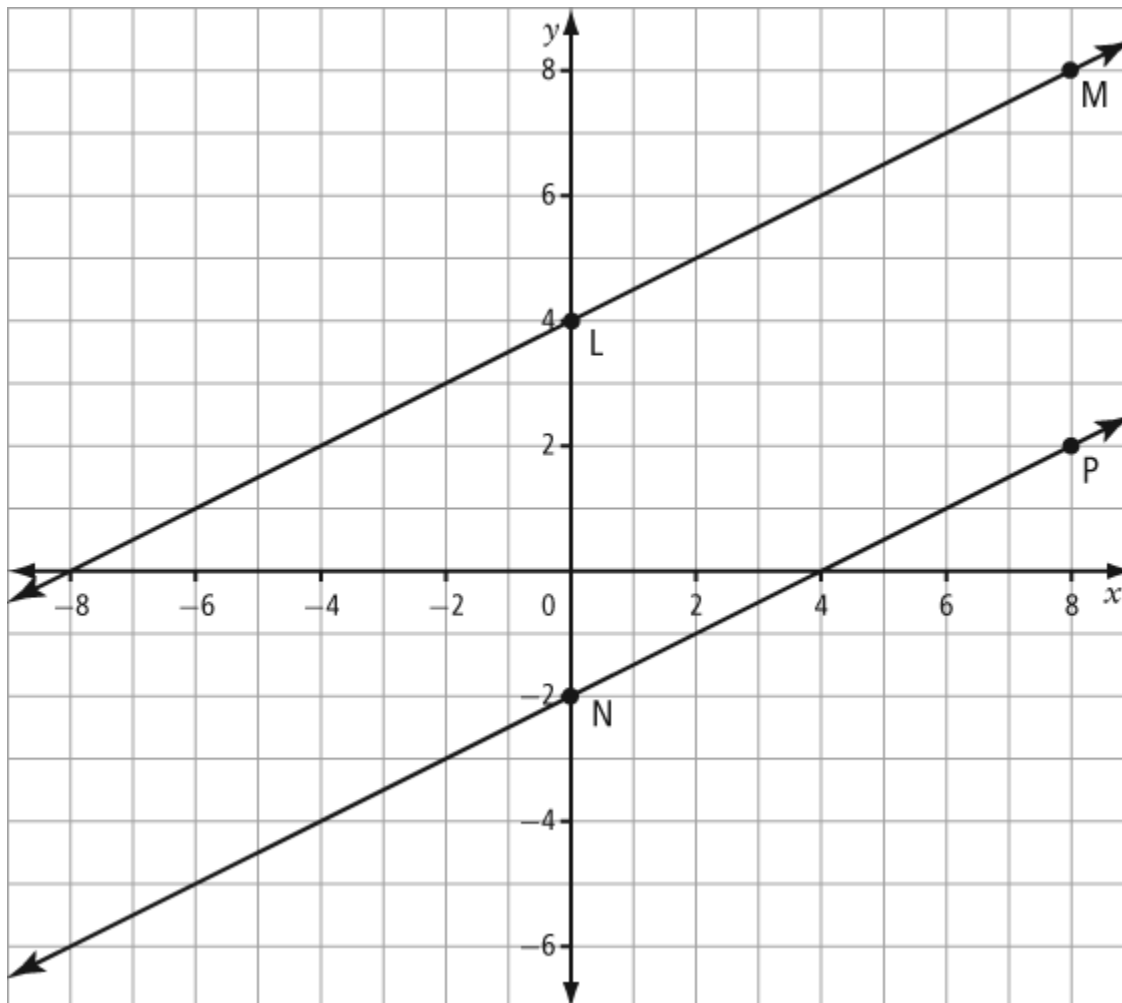
a. $\frac{5}{2}$

c. $-\frac{2}{5}$

b. $\frac{2}{5}$

d. $-\frac{5}{2}$

19. In the graph, the equation of the line containing LM is $y = 0.5x + 4$. The two lines are parallel. What is the equation of the line containing NP?



- a. $y = 0.5x - 2$
b. $y = 0.5x + 2$
c. $y = 2x - 2$
d. $y = 2x + 2$

20. The equation of line T is $y = 5x + 10$, while the equation of line U is $y = 4x + 10$. Which statement is true?
- a. Line T is parallel to line U.
b. Line U is perpendicular to line T.
c. Line T is steeper than line U.
d. Line U is steeper than line T.

