

7. The equations of lines *k*, *p*, and *m* are given below:

k: x + 2y = 6p: 6x + 3y = 12m: -x + 2y = 10

8. The equations of lines *k*, *m*, and *n* are given below:

k: 3y + 6 = 2xm: 3y + 2x + 6 = 0

n: 2y = 3x + 6

Which statement is true?

- a. p is perpendicular to m
- b. m is perpendicular to k
- c. k is parallel to p
- d. m is parallel to k

Which statement is true?

- a. *n* is perpendicular to *m*
- b. m is perpendicular to k
- c. *k* is parallel to *m*
- d. m is parallel to n

True or False?

- 9. The line 3x + 5y = 7 has slope 3/5.
- 10. The line 4x + 3y = 52 intersects the *x*-axis at x = 13.
- 11. The lines y = 8 3x and -2x + 16y = 8 both cross the *y*-axis at y = 8.
- 12. If two lines never intersect then their slopes are equal.
- 13. The equation of a line parallel to the *y*-axis could be y = -0.75.
- 14. The line parallel to the *x*-axis has slope zero.
- 15. The slope of the line perpendicular to y = -7 is undefined.
- 16. Write a linear function for the line that passes through the point (3, 4) and is parallel to the *x*-axis.
- 17. Write the equation of the line parallel to the line whose equation is 4x + 3y = 7 and also passes through the point (-5, 2).
- 18. Write an equation of a line which passes through (6, 9) and is perpendicular to the line whose equation is 4x 6y = 15?