

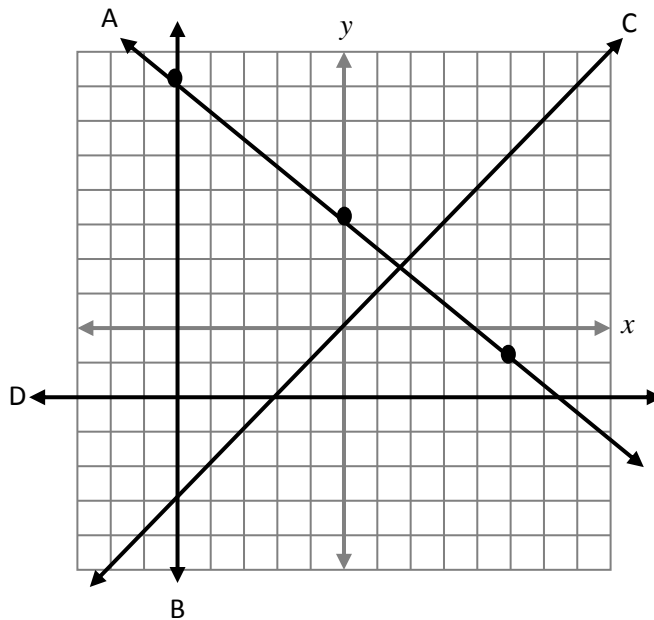
Write the equation of each graphed line.

1. Line A) _____

2. Line B) _____

3. Line C) _____

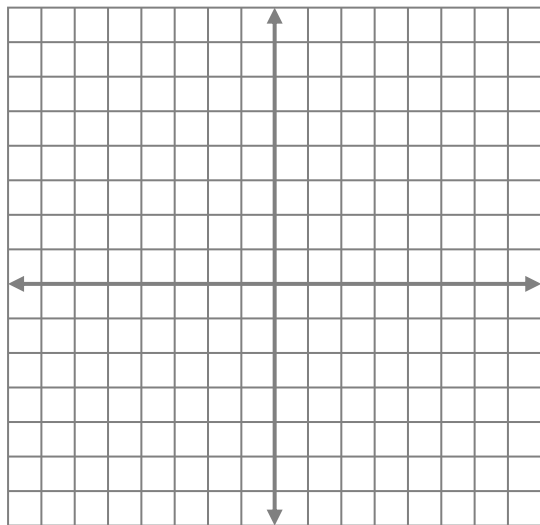
4. Line D) _____



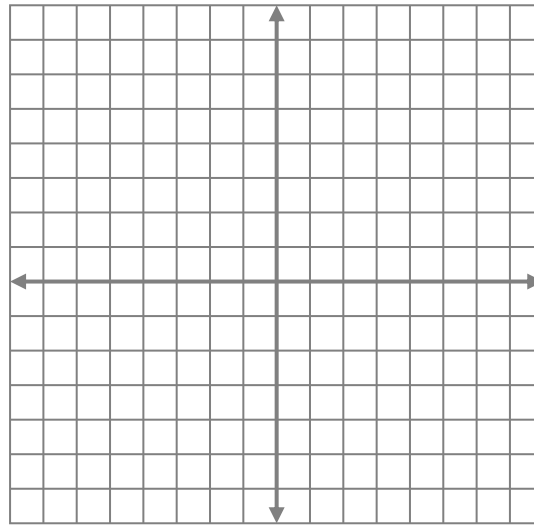
Graph the line that passes through the given points and then write the equation of the line.

5. $(-3, 1)$ and $(3, -7)$

6. $(2, 2)$ and $(4, 3)$



Equation: _____



Equation: _____

Using the slope formula, find the slope of the line that passes through the given points.

7. $(3, 0)$ and $(-2, -7)$

8. $(22, 4)$ and $(97, -4)$

9. $(-6, -1)$ and $(-8, -1)$

$m =$ _____

$m =$ _____

$m =$ _____

Using slope –intercept form ($y=mx+b$), write the equation of the line with the given slope and passing through the given point.

10. $m=3$ (2,-1)

11. $m=\frac{2}{3}$ (3,4)

12. $m = 0$ (-2,-4)

Equation:_____

Equation:_____

Equation:_____

Using slope –intercept form ($y=mx+b$), write the equation of the line passing through the given points.

13. (5, 2) and (-3, 18)

14. (5, -2) and (-10, 7)

Equation:_____

Equation:_____

15. (3, 8) and (3, -4)

16. (-1, -2) and (-4, 4)

Equation:_____

Equation:_____

What slope would a line parallel to the given line have? What slope would a perpendicular line have?

17. $y = 3x - 4$

18. $y = \frac{-2}{5}x + 5$

19. $y = \frac{7}{8}x - 6$

Parallel slope_____

Parallel slope_____

Parallel slope_____

\perp slope _____

\perp slope _____

\perp slope _____

Write the equation of the line parallel to the given line through the given point.

20. Parallel to $y = -x$ through (2, 20)

21. Parallel to $2x + 5y = -3$ through (10, 1)

Write the equation of the line perpendicular (\perp) to the given line through the given point.

22. \perp to $y = \frac{-5}{3}x - \frac{4}{3}$ through (-5, 10)

23. \perp to $y = 2x + 7$ through (4, -8)