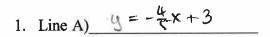
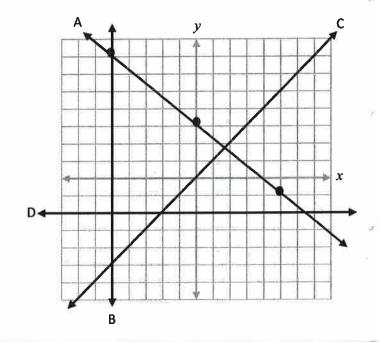


Write the equation of each graphed line.

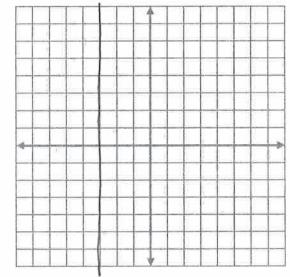


- 2. Line B) $\chi = -5$
- 3. Line C) _______
- 4. Line D) y = -2



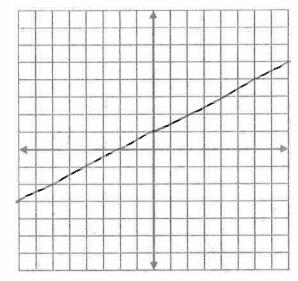
Graph the line that passes through the given points and then write the equation of the line.

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



Equation: x = -3

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



Equation: $y = \frac{1}{2}x + 1$

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)

$$m = \frac{8}{75}$$

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: y = 3x = 7 Equation: $y = \frac{2}{3}x + 2$ Equation:

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

Equation: y = -2x + 12

Equation: $y = -\frac{3}{5}x + 1$

Equation: $\chi = 3$

Equation: y = -2x - 4

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____3____

Parallel 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)

| u = -x + 22

Write the equation of the line perpendicular (\bot) 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)