Find the Equation of a Line - 3

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Write an equation of the line with the given slope, m, and y-intercept (0, b).

1) $m = -7, b = 3$

1) _____

2) $m = \frac{1}{2}, b = 4$

2) _____

3) $m = \frac{1}{2}, b = 0$

3) _____

4) $m = 0, b = -8$

4) _____

5) $m = \frac{3}{2}, b = -4$

5) _____

6) $m = -\frac{5}{2}, b = 7$

6) _____

7) $m = -\frac{3}{7}, b = \frac{27}{7}$

7) _____

Find an equation of the line described. Write the equation in slope-intercept form if possible.

8) Slope -3, through (3, 4)

8) _____

9) Slope $\frac{2}{3}$, through (8, 8)

9) _____

10) Slope -3, through (-8, -6)

10) _____

11) Slope - $\frac{5}{9}$, through (2, 5)

11) _____

Find an equation of the line with the given slope that passes through the given point. Write the equation in the form Ax + By = C.

12) $m = -2;$ (-3, -7)

12) _____

13) $m = 6;$ (7, 2)

13) _____

14) $m = -\frac{2}{5};$ (2, 3)

14) _____

Find an equation of the line described. Write the equation in slope-intercept form if possible.

15) Through (5, 41) and (4, 33)

15) _____

16) Through (10, -62) and (3, -13)

16) _____

1

17) Through (10, -96) and (-7, 57) 17) _____

18) Through (0, 0) and $\left(6, \dfrac{6}{5}\right)$ 18) _____

Find an equation of the line through the pair of points. Write the equation in the form Ax + By = C.

19) (, 3) and (0, -5) 19) _____

20) (-3, 1) and (7, 4) 20) _____

Find an equation of the line.

21) Vertical line through (-5, 4) 21) _____

22) Horizontal line through (-2, 3) 22) _____

23) Vertical line through (-4, -7) 23) _____

24) Vertical line through (-2, 7) 24) _____

25) Horizontal line through $\left(\dfrac{13}{10}, 0\right)$ 25) _____

1) $y = -7x + 3$

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

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

4) $y = -8$

5) $y = \frac{3}{2}x - 4$

6) $y = -\frac{5}{2}x + 7$

7) $y = -\frac{3}{7}x + \frac{27}{7}$

8) $y = -3x + 13$

9) $y = \frac{2}{3}x + \frac{8}{3}$

10) $y = -3x - 30$

11) $y = -\frac{5}{9}x + \frac{55}{9}$

12) $2x + y = -13$

13) $6x - y = 40$

14) $2x + 5y = 19$

15) $y = 8x + 1$

16) $y = -7x + 8$

17) $y = -9x - 6$

18) $y = \frac{1}{5}x$

19) $-8x + 7y = -35$

20) $3x - 10y = -19$

21) $x = -5$

22) $y =$

23) $x = -4$

24) $x = -2$

25) $y = 0$