Find the Equation of a Line - 2

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) $m = 6, b = 9$ 1) _____

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

3) $m = \frac{5}{3}, b = 0$ 3) _____

4) $m = 0, b = 10$ 4) _____

5) $m = \frac{7}{2}, b = -12$ 5) _____

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

7) $m = -\frac{7}{4}, b = \frac{47}{4}$ 7) _____

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

8) Slope 2, through (3, 2) 8) _____

9) Slope $\frac{5}{6}$, through (8, 2) 9) _____

10) Slope -3, through (-8, -2) 10) _____

11) Slope $-\frac{4}{7}$, through (2, 3) 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) $m = -2$; (-7, -3) 12) _____

13) $m = 4$; (8, 3) 13) _____

14) $m = -\frac{3}{8}$; (3, 5) 14) _____

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

15) Through (10, 81) and (4, 33) 15) _____

16) Through (4, -10) and (6, -20) 16) _____

17) Through (6, -31) and (-2, 1) 17) _____

18) Through (0, 0) and $\left(7, \frac{7}{2}\right)$ 18) _____

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

19) (, 7) and (0, -6) 19) _____

20) (-3, 1) and (0, -4) 20) _____

Find an equation of the line.

21) Vertical line through (2, 5) 21) _____

22) Horizontal line through (-5, 10) 22) _____

23) Vertical line through (1, 3) 23) _____

24) Vertical line through (-3, -9) 24) _____

25) Horizontal line through $\left(\frac{6}{11}, 0\right)$ 25) _____

Answer Key
Testname: EQUOF LINE1

1) $y = 6x + 9$
2) $y = \frac{1}{2}x + 3$
3) $y = \frac{5}{3}x$
4) $y = 10$
5) $y = \frac{7}{2}x - 12$
6) $y = -\frac{2}{5}x + 7$
7) $y = -\frac{7}{4}x + \frac{47}{4}$
8) $y = 2x - 4$
9) $y = \frac{5}{6}x - \frac{14}{3}$
10) $y = -3x - 26$
11) $y = -\frac{4}{7}x + \frac{29}{7}$
12) $2x + y = -17$
13) $4x - y = 29$
14) $3x + 8y = 49$
15) $y = 8x + 1$
16) $y = -5x + 10$
17) $y = -4x - 7$
18) $y = \frac{1}{2}x$
19) $-13x + 4y = -24$
20) $-5x - 3y = 12$
21) $x = 2$
22) $y =$
23) $x = 1$
24) $x = -3$
25) $y = 0$