Alg Name_____

# 3-8 Finding Equation Of A Line (ver1)_hw

Date_____ Period____

**Given the point & slope, write the equation of each line in slope-intercept form (y=mx+b).**

1) through: $(2, 2)$, slope = $-1$

2) through: $(1, 5)$, slope = 8

3) through: $(2, -3)$, slope = $-2$

4) through: $(-5, 3)$, slope = $\frac{2}{5}$

5) through: $(1, 0)$, slope = $-5$

6) through: $(-3, 5)$, slope = $-2$

7) through: $(4, 0)$, slope = $-2$

8) through: $(2, 0)$, slope = $\frac{1}{2}$

9) through: $(3, -5)$, slope = $-\frac{5}{3}$

10) through: $(3, -1)$, slope = 1

11) through: $(-4, 0)$, slope = 2

12) through: $(-5, -5)$, slope = $\frac{7}{5}$

13) through: $(-2, -2)$, slope = 3

14) through: $(-5, 0)$, slope = $\frac{2}{5}$

15) through: $(-4, 2)$, slope = $-1$

16) through: $(-3, 2)$, slope = $-\frac{5}{3}$

17) through: $(1, -4)$, slope = 4

18) through: $(1, 1)$, slope = $-2$

19) through: $(4, 2)$, slope = 1

20) through: $(-4, 2)$, slope = $-\frac{1}{4}$

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## Answers to 3-8 Finding Equation Of A Line (ver1)_hw

1) $y = -x + 4$
2) $y = 8x - 3$
3) $y = -2x + 1$
4) $y = \frac{2}{5}x + 5$
5) $y = -5x + 5$
6) $y = -2x - 1$
7) $y = -2x + 8$
8) $y = \frac{1}{2}x - 1$
9) $y = -\frac{5}{3}x$
10) $y = x - 4$
11) $y = 2x + 8$
12) $y = \frac{7}{5}x + 2$
13) $y = 3x + 4$
14) $y = \frac{2}{5}x + 2$
15) $y = -x - 2$
16) $y = -\frac{5}{3}x - 3$
17) $y = 4x - 8$
18) $y = -2x + 3$
19) $y = x - 2$
20) $y = -\frac{1}{4}x + 1$