Algebra 1 Name_____

Linear Equations Point Slope WS# 2

Date_____ Period____

Write the point-slope form of the equation of the line through the given point with the given slope.

1) through: $(-3, -2)$, slope = 1

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

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

4) through: $(3, 2)$, slope = $-\frac{1}{3}$

5) through: $(-3, -4)$, slope = $\frac{9}{7}$

6) through: $(-4, 4)$, slope = $\frac{1}{5}$

7) through: $(-4, 1)$, slope = -6

8) through: $(-4, -5)$, slope = $\frac{1}{4}$

9) through: $(-3, -3)$, slope = $-\frac{1}{3}$

10) through: $(1, -3)$, slope = 0

Write the point-slope form of the equation of the line through the given points.

11) through: $(0, -2)$ and $(-1, 2)$

12) through: $(3, -2)$ and $(-4, -1)$

13) through: $(1, 2)$ and $(0, 0)$

14) through: $(4, -5)$ and $(0, -1)$

15) through: $(0, 0)$ and $(-3, -2)$

16) through: $(-5, 5)$ and $(0, 2)$

17) through: $(0, 3)$ and $(-1, -3)$

18) through: $(-3, 4)$ and $(0, 3)$

19) through: $(0, 2)$ and $(2, 1)$

20) through: $(0, 4)$ and $(1, -4)$

21) through: $(4, 0)$ and $(0, 4)$

22) through: $(-5, -1)$ and $(0, -5)$

23) through: $(0, -5)$ and $(-2, 4)$

24) through: $(-5, -4)$ and $(4, 2)$

25) through: $(3, -3)$ and $(5, 0)$

26) through: $(5, 5)$ and $(-1, -3)$

27) through: $(5, -2)$ and $(3, 5)$

28) through: $(4, 2)$ and $(1, -1)$

29) through: $(5, 0)$ and $(5, 4)$

30) through: $(4, -2)$ and $(-2, 0)$

Answers to Linear Equations Point Slope WS# 2 (ID: 1)

1) $y + 2 = x + 3$

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

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

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

5) $y + 4 = \frac{9}{7}(x + 3)$

6) $y - 4 = \frac{1}{5}(x + 4)$

7) $y - 1 = -6(x + 4)$

8) $y + 5 = \frac{1}{4}(x + 4)$

9) $y + 3 = -\frac{1}{3}(x + 3)$

10) $y + 3 = 0$

11) $y + 2 = -4x$

12) $y + 2 = -\frac{1}{7}(x - 3)$

13) $y - 2 = 2(x - 1)$

14) $y + 5 = -(x - 4)$

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

16) $y - 5 = -\frac{3}{5}(x + 5)$

17) $y - 3 = 6x$

18) $y - 4 = -\frac{1}{3}(x + 3)$

19) $y - 2 = -\frac{1}{2}x$

20) $y - 4 = -8x$

21) $y = -(x - 4)$

22) $y + 1 = -\frac{4}{5}(x + 5)$

23) $y + 5 = -\frac{9}{2}x$

24) $y + 4 = \frac{2}{3}(x + 5)$

25) $y + 3 = \frac{3}{2}(x - 3)$

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

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

28) $y - 2 = x - 4$

29) $0 = x - 5$

30) $y + 2 = -\frac{1}{3}(x - 4)$