

## Point Slope form of a Line

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**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  $(-2, 0)$