

Unit 4 Study Guide

Find the slope of the line through each pair of points.

1) $(9, -8), (-7, -10)$

2) $(-13, 11), (-10, -16)$

3) $(-5, -12), (10, 19)$

4) $(-11, -5), (-11, 11)$

5) What is the Equation for point slope form?

6) What is the Equation for Slope intercept form?

7) What is the Equation for Standard Form?

8) What is the formula for slope?

9) When the slope is undefined, what is the name of the graph?

10) When the slope is zero, what is the name of the graph?

Write an equation of the line in slope intercept form.

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

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

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

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

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

16) through: $(2, 5)$ and $(4, 3)$

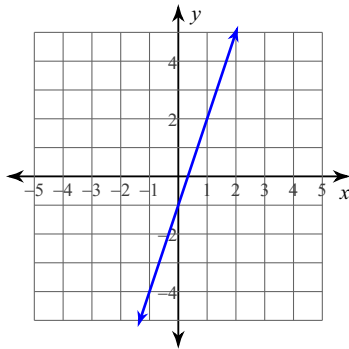
17) through: $(-4, 2)$ and $(0, -3)$

18) through: $(-5, -1)$ and $(5, 5)$

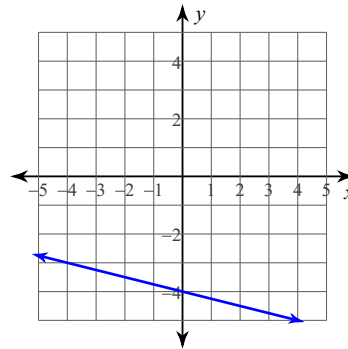
19) through: $(0, 4)$ and $(2, 1)$

20) through: $(0, 0)$ and $(3, 5)$

21)



22)



23) $2x - y = 5$

24) $6x - y = -5$

25) $3x - y = -6$

26) $15x - 8y = 64$

27) Slope = $-\frac{3}{4}$, y-intercept = 1

28) Slope = -4 , y-intercept = -5

29) Slope = -1 , y-intercept = 4

30) Slope = 4, y-intercept = -4

31) Slope = $-\frac{3}{2}$, y-intercept = -5

Write an equation in point slope form.

32) through: $(5, 1)$, slope = $\frac{1}{3}$

33) through: $(4, -4)$, slope = $-\frac{9}{4}$

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

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

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

37) through: $(-5, 4)$ and $(-5, -3)$

38) through: $(0, 5)$ and $(4, -4)$

39) through: $(-3, -3)$ and $(4, 5)$

40) through: $(1, 4)$ and $(0, 1)$

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

Write an equation in Standard Form.

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

43) through: $(-3, 5)$, slope = -1

44) through: $(-5, -2)$, slope = $\frac{6}{5}$

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

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

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

48) through: $(1, -3)$ and $(2, -5)$

49) through: $(0, -2)$ and $(-4, -1)$

50) through: $(-4, 4)$ and $(-1, -4)$

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

Convert the two points and circle each form. 1. Point slope form 2. Slope intercept form 3. Standard form.

52) through: $(-4, 4)$ and $(0, -5)$

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

54) through: $(2, 2)$ and $(0, -2)$