

## Review

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Slope intercept form

$$y = mx + b$$

Point slope form

$$y - y_1 = m(x - x_1)$$

General form

$$Ax + By + c = 0$$

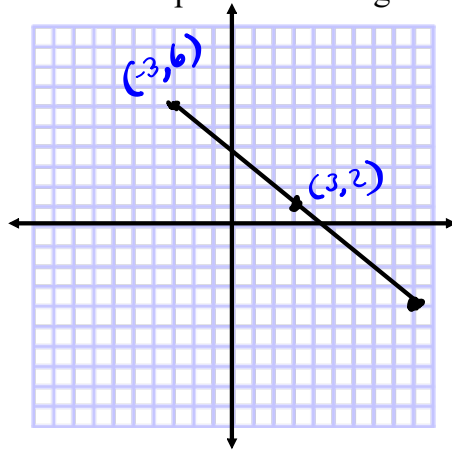
Distance

$$D = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Mid point

$$MP(x, y) = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

1) Determine the slope of a line segment perpendicular to this line



2)a) Determine the slope of a line that is perpendicular to the line through S(3,1) and R(8, -5)

b) Determine the slope of a line that is parallel to the line through M(-3, -4) and J(11, 2)

3) Slope of a line is  $-\frac{1}{4}$

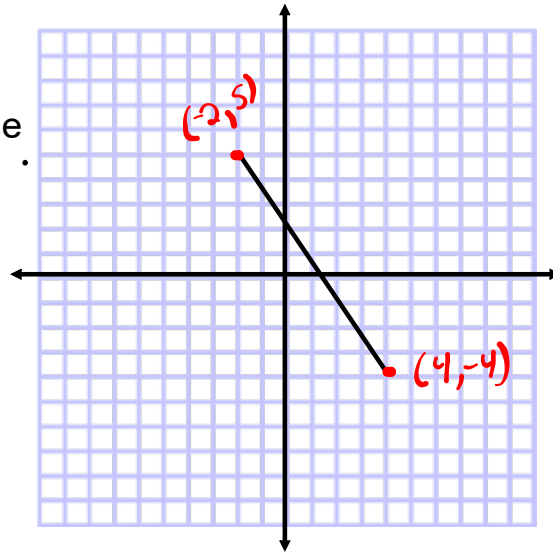
a) What is the slope of the line that is parallel to this line

b) What is the slope of the line that is perpendicular to this line?

4) A line has x-intercept 2 and y-intercept -7 Determine the slope of a line a) parallel to this line. b) Perpendicular to this line

5) Draw a graph for  $y = \frac{1}{7}x - 2$

6) Write an equation for the line



7) Fred works on appliances. Fred charges a initial fee of \$30, plus a hourly fee of \$20. Write an equation to represent the total cost,  $C$  dollars, for  $h$  hours.

8) write the point and slope from the following equations of a line

a)  $y - 7 = \frac{-2}{3}(x + 2)$       b)  $y + 4 = \frac{3}{4}(x - 10)$       c)  $y - 7 = 3(x-9)$

9) Write an equation of a line in point-slope form for the following:

a) slope =  $\frac{-2}{7}$  ,  $R(6, -1)$       b)  $m= 5,$   $P(4, 11)$

10) For the above questions (9a,b) convert the point-slope equation to slope-intercept equation

11) Determine the x-intercept for  $y - 8 = 2(x + 10)$

12) Determine the y-intercept for  $y + 5 = 2(x - 6)$

13) Write the following equation in general form:  $y = \frac{-2}{3}x - 7$

14) The coordinates of the endpoints of segments are given below. Are the two line segments **parallel, perpendicular, or neither?**

P(4,-3), U(16,5) and K(-5,2), F(7,-1)

15) Write an equation for the line that passes through W(-7, 12) and N(-4,3).

a) slope-point form

b) slope-intercept form

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16) Write this equation in general form:

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

b)  $y - 5 = \frac{2}{3}(x + 7)$

17) For the following line determine:  $3x + 6y - 24 = 0$

i) the slope

ii) the y- intercept

iii) the x-intercept

18) Write an equation for the line **that passes through Z(-1, 3)** and is:  
(leave answer in slope intercept form )

a) **perpendicular to the line**  $y = \frac{-5}{4}x - 3$

b) **parallel to the line**  $8x + 3y + 10 = 0$

19) The line AB has a **slope of -2** and it passes through the points F(-9,5) and G(-3, k ), determine the value of "k".  
(SHOW ALL WORK )

## Attachments

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WORKSHEET TEST REVIEW (Day 1).notebook