

8th Example problems I don't know how to solve

1) slope from two points

What is the slope of the line that goes through  $(1, 1)$  and  $(3, 4)$ ?

Issue: I don't know what to do

2) slope from two points: one point is negative

What is the slope of the line passing through  $(1, 1)$  and  $(-6, -8)$ ?

Issue: not sure what to do if one point is negative.

3. equation of line with slope that is a fraction that goes through a point

What is the equation of a line with slope  $\frac{3}{4}$  that goes through the point  $(2, 1)$

Issue: I don't understand a fractional slope.

x-intercept of slope intercept equation

( 4) What is the x-intercept of the line  $y = 2x - 4$  ?

Issue: I don't know the x-intercept is.

OR

Issue: I know the x-intercept is where it crosses the x-axis but I don't

5) x and y intercept of equation in standard form

( What are the x and y intercepts of the equation  $3x + 4y = 12$

Issue: I don't know what the x and y intercepts mean

OR

Issue: I don't know how to calculate x and y intercepts if equation is in standard form.

6) converting from standard to slope intercept form

( Convert  $5x + 3y = 5$  to slope intercept form.

Issue: I'm not sure of the steps to do this.

7. point is a solution to equation

Is the point  $(3, 4)$  on the line  $y = 3x - 2$

Issue: I don't know how to plug the point in to the equation

8 equation of line from slope and point

What is the equation of the line with slope 2 that goes through the point  $(1, 3)$ ?

Issue: I know the equation is  $y = 2x + \text{something}$  but I don't know what to do next.

9) finding solutions to equations in standard form.

What is a solution to the equation  $6a + 9f = 72$ ?

Issue: I don't know what to do because there are two variables

10) one variable problem with decimals

Solve for  $w$ .  $2.2w + 80 = 86.6$

Issue: I'm not sure how to handle a variable with a decimal coefficient.