Journal Entry:

Read through Solve It, Getting Ready on the top of page 82. Use DRAW to give a good reflection on how you know that they points that you picked are perpendicular and parallel to pine street. What method or tools did you use to make sure that it would be correct?

Aug 18-2:52 PM

Section 2-4 More About Linear Equations

Students will be able to write an equation of a line given its slope and a point on the line.

Aug 18-2:52 PM

If you know the slope and a point on the line, you can write the equation in point-slope form.

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

$$(x - x_1) = \frac{1}{x_2 - x_1}$$

$$(x - x_1) = \frac{1}{x_2 - x_1}$$

$$(x - x_1) = \frac{1}{x_1 - x_1}$$

$$(x - x_1) = \frac{1}{x_1 - x_1}$$

Aug 18-2:52 PM

What is the equation for a line that passes through (7, -1) with a slope of -3?

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

 $y + (+1) = -3(x - 7)$
 $y + 1 = -3(x - 7)$

Aug 18-2:52 PM

What is the point-slope form for the equation of a line that goes through the points (5, 1) and (7, 9)?

$$M = \frac{9-1}{7-6} = \frac{8}{2} = 4$$

$$Y-1 = 4(x-6)$$

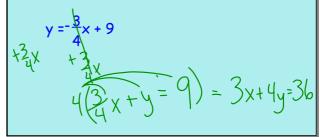
$$Y-9 = 4(x-7)$$

Are everyone's the same? Put into slope-intercept form. Are they the same now?

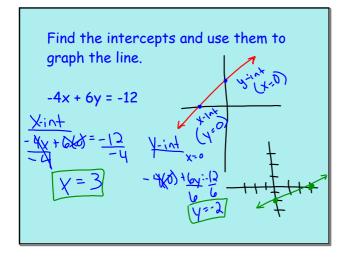
Standard Form:

Ax + By = C, where A, B, and C are real numbers (and when possible integers), and both A and B are not 0.

What the equation of the following in standard form?



Aug 18-2:52 PM



Aug 18-2:52 PM

The office manager of a small office ordered 140 packs of printer paper. Based on average daily use, she know that the paper will last her about 80 days.

- a) Graph the situation.
- b)What is the equation in standard form?
- c)How many packs should she expect to have in 30 days?

Aug 18-2:52 PM

parallel never touch | Same slope

different y-int.

perpendicular form 90° angles

opposite reciprocal

Slopes

The slopes of two lines in the same plane indicate how the lines are related.

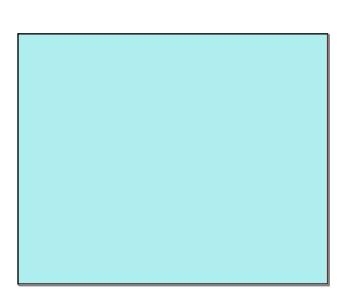
Aug 18-2:52 PM

What is the equation in slope intercept form?

a) line parallel to 4x + 2y = 7 and goes through (4, -2)

Hwk: pg. 86 - 88 #12, 18, 24, 26, 34, 35, 36 - 54 evens

Quiz Tomorrow 2-1 → 2-4



Sep 24-2:19 PM Sep 24-2:19 PM



Sep 24-2:19 PM