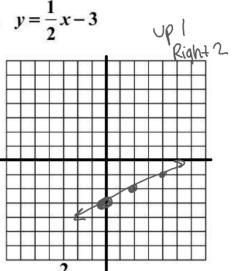
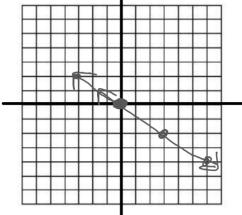
# Warm-Up- Graph each equations.

1. 
$$y = \frac{1}{2}x - 3$$

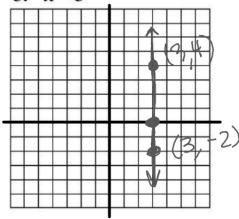


2. 
$$y = -\frac{2}{3}x + 0$$

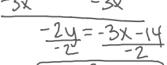


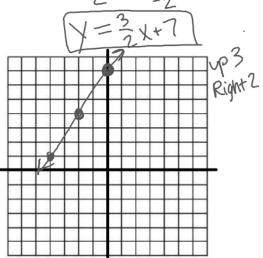


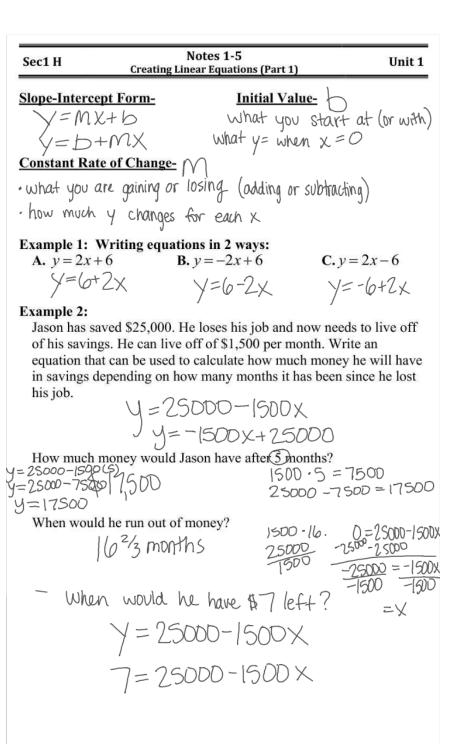
3. 
$$x = 3$$



4. 
$$3x - 2y = -14$$







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Notes 1-5
Creating Linear Equations (Part 1)

Unit 1

#### Example 3:

Karen is finishing a quilt that her grandmother started. When she received the quilt it was 5 square feet. Each day she adds 2 more squares to the quilt. Assuming she worked at a constant rate, write an equation that would calculate how much she has done depending on how many days she has been working.

$$Y = 5 + 2x$$

#### Standard Form:

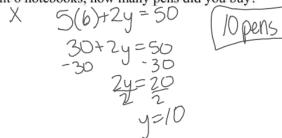
Ax + By = C

#### Example 4:

Your parents gave you \$50 to buy school supplies for your family. You arrived at the store and find the perfect notebook and some great fun-colored pens. You buy *x* notebooks for \$5 each and *y* pens for \$2 each, spending the entire \$50.



If you bought 6 notebooks, how many pens did you buy?



Unit 1

### Example 5:

The Ramsey family bought 4 sandwiches and 3 salads. They spent \$24. Let x be the cost of a sandwich and y be the cost of a salad.

4x + 3y = 24

If each sandwich costs \$3.75, how much did each salad cost? 4(3.75) + 3y = 24 15 + 3y = 24 3y = 9 y = 3

## Example 6:

A 100-point test has x questions worth 2 points apièce and y questions worth 4 points apiece,

When is an equation going to be in slope-intercept form?

· Starting value that you add or subtract to

·ONE thing that increases or decreases

When is it going to be in standard form?

· No increase or decrease. ·Total

· Two different things