Name	

# Quiz #2 (2.8 - 2.13) Review

Algebra 1

### 2.8: Which Variable to Solve for (Part 1)

- ☐ Given an equation, I can solve for a particular variable (like height, time, or length) when the equation would be more useful in that form.
- ☐ I know the meaning of the phrase "to solve for a variable."

### 2.9: Which Variable to Solve for? (Part 2)

☐ I can write an equation to describe a situation that involves multiple quantities whose values are not known, and then solve the equation for a particular variable.

(DM: Single Step Literal Equations)

(DM: Standard to slope intercept form)

### 2.10: Connecting Equations to Graphs (Part 1)

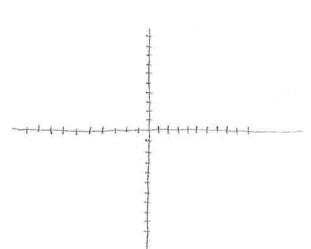
- ☐ I can describe the connections between an equation of the form, the features of its graph, and the rate of change in the situation.
- $\square$  I can graph a linear equation of the form y = mx + b.

## 2.11: Connecting Equations to Graphs (Part 2)

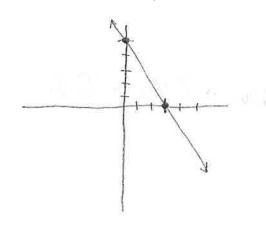
- $\Box$  I can find the slope and vertical intercept of a line with equation ax + by = c.
- $\Box$  I can take an equation of the form ax + by = c and rearrange it into the equivalent form y = mx + b.
- ☐ I can use a variety of strategies to find the slope and vertical intercept of the graph of a linear equation given in different forms.
- (DM: x and y intercepts)
- (DM: graphing Ax + By = C from intercepts)
- (DM: find the slope graphically)
- (DM: graphing lines from equations)

(5) Find the slope and the y-intescept for [5x - 4y = 20]





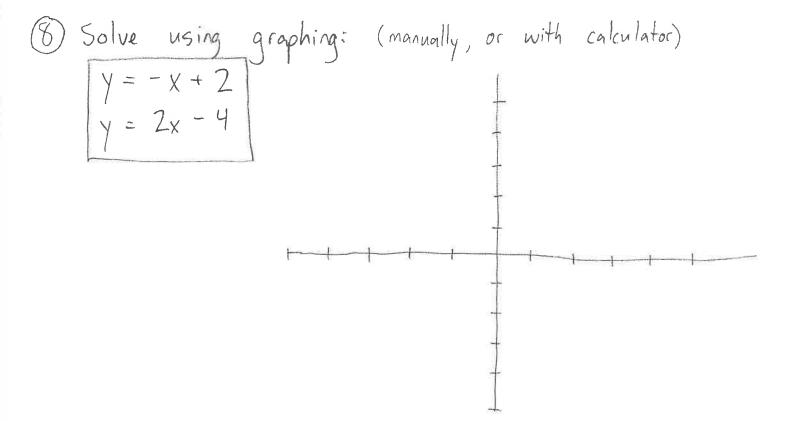




2.12: Writing and Graphing Systems of Linear E	Equations
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- ☐ I can explain what we mean by "the solution to a system of linear equations" and can explain how the solution is represented graphically.
- ☐ I can explain what we mean when we refer to two equations as a system of equations.
- ☐ I can use tables and graphs to solve systems of equations.

(DM: solve linear systems graphically)



### 2.13: Solving Systems by Substitution

- ☐ I can solve systems of equations by substituting a variable or an expression.
- ☐ I know more than one way to perform substitution and can decide which way or what to substitute based on how the given equations are written.

(DM: substitution)

Solve the following systems using substitution:

$$y = 8x$$

$$y = 4x + 8$$

$$\begin{vmatrix} -6y = x \\ x + y = -30 \end{vmatrix}$$