

Name

Alg I.

# Model Direct Variation

I can write and graph direct variation equations.

Ch. 3 Quiz

## Example 3:

$$5) y = ax$$

$$\frac{6}{4} = \frac{a(4)}{4}$$

$$a = \frac{6}{4} = \frac{3}{2}$$

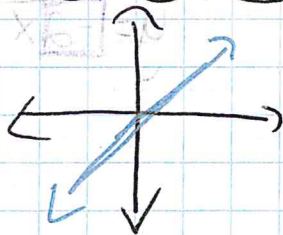
$$y = \frac{3}{2}x$$

$$y = \frac{3}{2}(24)$$

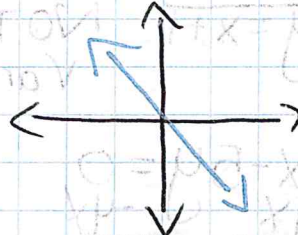
$$y = 36$$

$$\frac{24}{1} \times \frac{3}{2} = \frac{72}{2} = 36$$

## Direct Variation Graphs:



$$a > 0$$



$$a < 0$$

## Example 4:

$$6) S = 5w$$

$$S = 5(25)$$

$$S = 125 \text{ tbsp}$$

## Example 5:

7) No; The equation that models this situation does not have the form of  $y = ax$ .

\* Complete Skills Practice, pg. 194, #