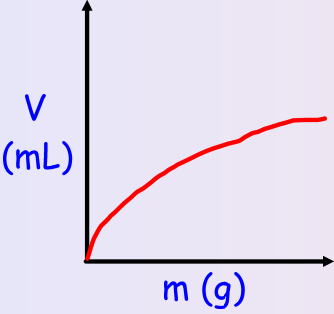


## Graphing Extra Practice

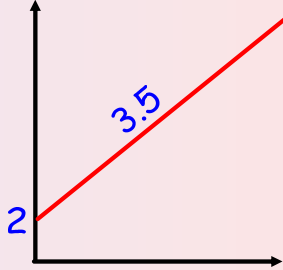
**Graphing Extra Practice**

-Label the x & y axis below that would produce this graph from the graph on the left.



V (mL)

m (g)



3.5

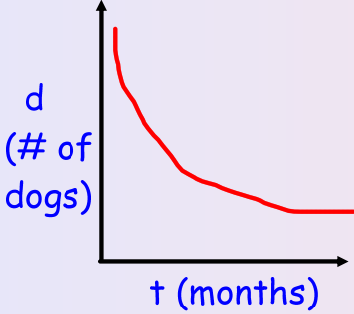
2

- What is the relationship between volume and mass?

- Assuming 2 is the y-int. and 3.5 is the slope, write the equation for the graph.

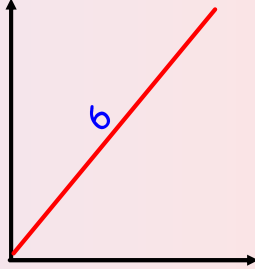
**Graphing Extra Practice**

-Label the x & y axis below that would produce this graph from the graph on the left.



d (# of dogs)

t (months)



6

- What is the relationship between # of dogs and time?

- Assuming the y-int. is 0 and 6 is the slope, write the equation for the graph.

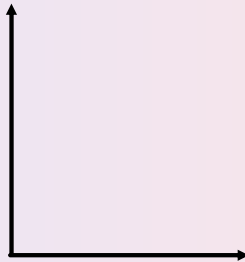
## Graphing Extra Practice

P (Pa)	d (m)
1	3
2	12
3	27
4	48

Graph the data to the left on this graph



Show the modified graph that is needed to make the graph linear



Slope = \_\_\_\_\_

Assume y-int = 0

Using the data and graphs from the previous page . . .

-What term describes the shape of the original graph?

\_\_\_\_\_

- What is the relationship between the data?

\_\_\_\_\_

- Write an equation that represents the relationship between the data

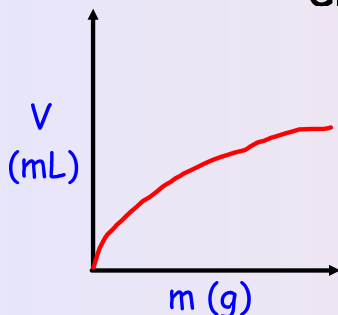
\_\_\_\_\_

- Using the equation, what distance would produce a pressure of 300 Pa?

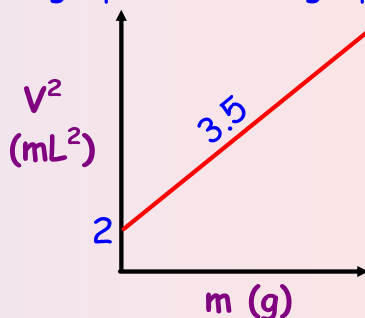
\_\_\_\_\_

## Graphing Extra Practice

### Graphing Extra Practice



-Label the x & y axis below that would produce this graph from the graph on the left.

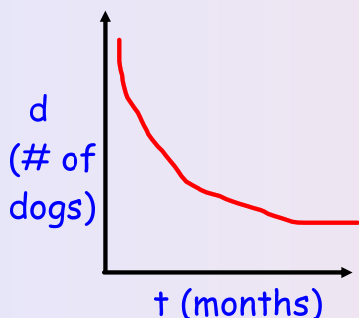


- What is the relationship between volume and mass?

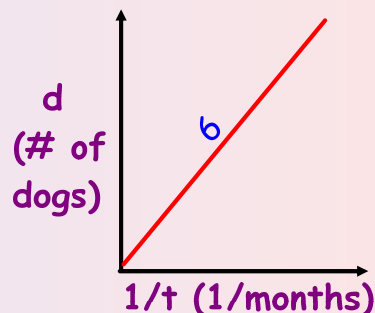
$$V^2 \propto m$$

- Assuming 2 is the y-int. and 3.5 is the slope, write the equation for the graph.

$$V^2 = 3.5 \text{ mL}^2/\text{g} (m) + 2 \text{ mL}^2$$



-Label the x & y axis below that would produce this graph from the graph on the left.



- What is the relationship between # of dogs and time?

$$d \propto 1/t$$

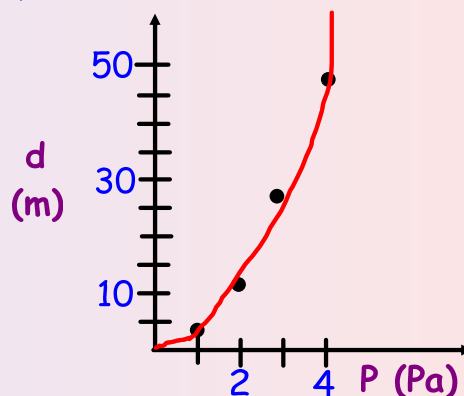
- Assuming the y-int. is 0 and 6 is the slope, write the equation for the graph.

$$d = 6 \text{ # dogs} \cdot \text{months} (1/t)$$

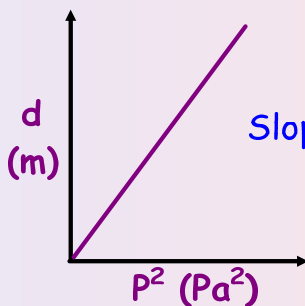
## Graphing Extra Practice

P (Pa)	d (m)
1	3
2	12
3	27
4	48

Graph the data to the left on this graph



Show the modified graph that is needed to make the graph linear



$$\text{Slope} = \frac{\text{rise}}{\text{run}} = \frac{48-3}{4^2-1^2} = 3 \text{ m/Pa}^2$$

Assume y-int = 0

Using the data and graphs from the previous page . . .

-What term describes the shape of the original graph?

Top opening parabola

- What is the relationship between the data?

$d \propto P^2$

- Write an equation that represents the relationship between the data

$d = 3 \text{ m/Pa}^2 (P^2)$

- Using the equation, what distance would produce a pressure of 300 Pa?

$d = 3 \text{ m/Pa}^2 (300^2) \quad d = 270,000 \text{ m}$