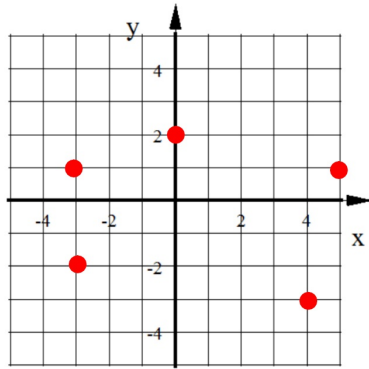


State the Domain and Range of this graph:



D: -3, 0, 4, 5

These are the x-coordinates
written in order from left to right across
the graph

R: -3, -2, 1, 2

These are the y-coordinates
written in order from bottom to top

The point (4, -7) is on the graph of
a direct variation relationship.

Write an equation for this Direct Variation.

$$y = kx \rightarrow k = \frac{y}{x} = \frac{-7}{4}$$

$$y = -\frac{7}{4}x$$

The data below comes from a Direct Variation relationship.

X	Y
-5	-31.5
-2.4	-15.12
4.5	28.35
7	44.1
11	69.3

$$\frac{y}{x} = 6.3$$

1. Write a Direct Variation Equation.

$$y = kx$$

$$y = 6.3x$$

2. Find x when y = 30

Use the
Direct Var.
Eq from #1

$$30 = 6.3x$$

$$4.76 = x$$

Or use a Proportion

$$\frac{-31.5}{-5} = \frac{30}{x}$$

3. Find y when x = 20

If you the Dir. Var.
Eq from #1
replace x with 20.

$$y = 6.3(20) = 126$$