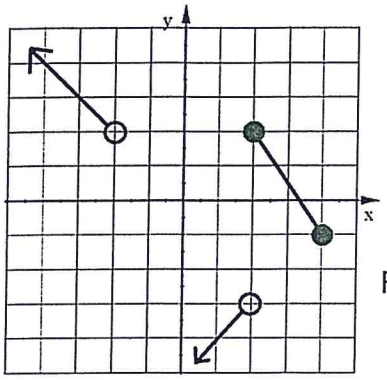
## Bellwork Alg 2A Wednesday, November 9, 2016

1. State the Domain & Range of this Relation:

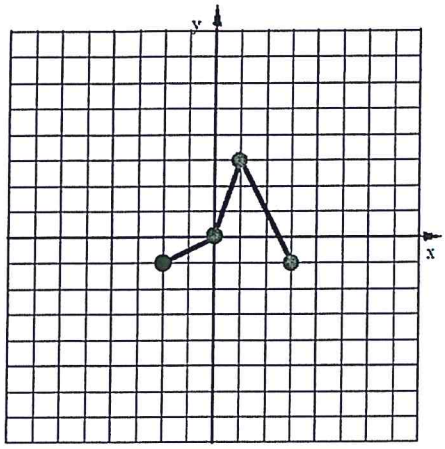


Domain:

Range:

2. Use the graph of $f(x)$ below to graph this function:

$$y = -3f(x+6)+4$$



3. Given $(16,20)$ is on a Direct Variation Relationship do the following:

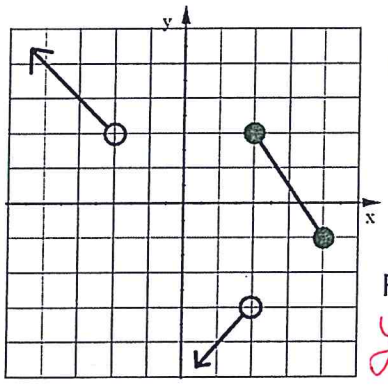
a) Write a Direct Variation Equation.

b) Find the missing coordinate if $(x,48)$ is on the same Direct Variation.

c) Find the missing coordinate if $(-50,y)$ is on the same Direct Variation.

## Bellwork Alg 2A Wednesday, November 9, 2016 ANSWERS

1. State the Domain & Range of this Relation:

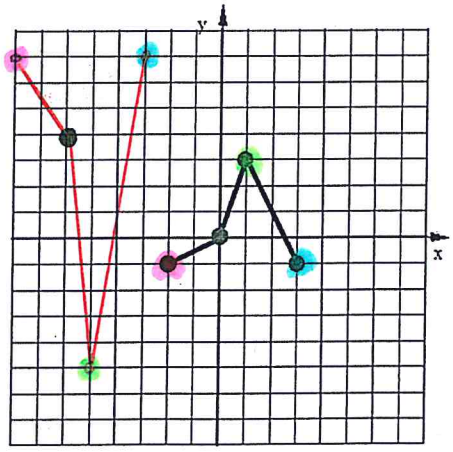


Domain: $x \leq 4$

Range: $y < -3, y \geq -1$

2. Use the graph of $f(x)$ below to graph this function:

$$y = -3f(x+6)+4$$



6 Left
4 up
3x Taller
upside down

Answer Connected in red

3. Given $(16,20)$ is on a Direct Variation Relationship do the following:

a) Write a Direct Variation Equation. $k = \frac{20}{16} = \frac{5}{4} \longrightarrow y = \frac{5}{4}x$ or $\frac{y}{x} = \frac{5}{4}$

b) Find the missing coordinate if $(x,48)$ is on the same Direct Variation.

c) Find the missing coordinate if $(-50,y)$ is on the same Direct Variation.

(b) $48 = \frac{5}{4}x$ or $\frac{48}{x} = \frac{5}{4} \longrightarrow x = 38.4$

(c) $y = \frac{5}{4}(-50)$ or $\frac{y}{-50} = \frac{5}{4} \longrightarrow y = -62.5$