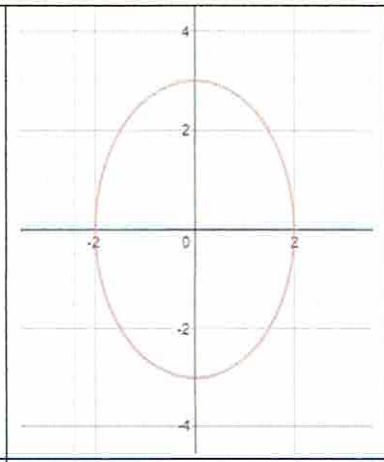
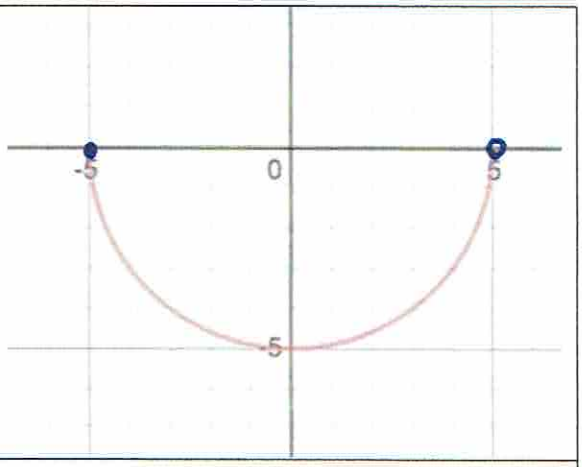
FMPC10 **Name:**_____

LINEAR AND OTHER RELATIONS – QUIZ

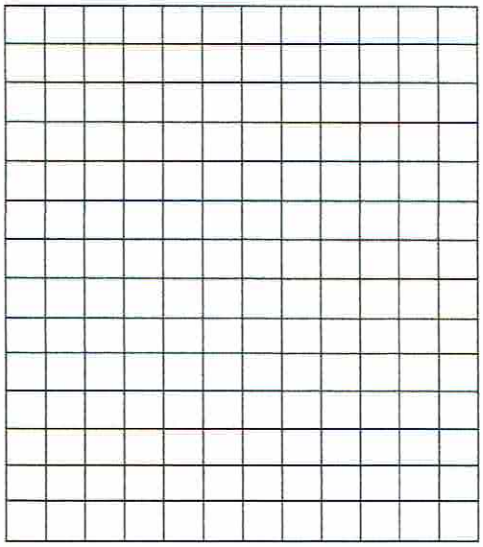
Level 1

1. Using a sentence or interval notation, express the domain and range of the given relations.

Relation		
Domain		
Range		
Is the given relation a function? (Yes or No)		

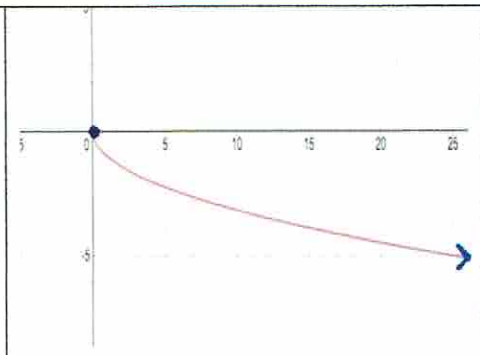
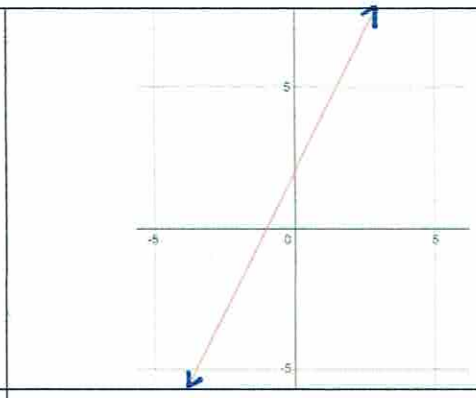
2. Determine whether the graphs above show a function.

3. Graph $y = \frac{2}{3}x - 1$



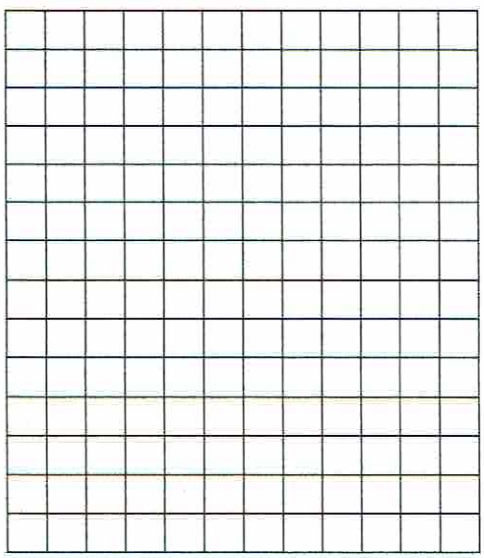
Level 2

1. Using a sentence or interval notation, express the domain and range of the given relations.

Relation		
Domain		
Range		
Is the given relation a function? (Yes or No)		

2. Determine whether the graphs above show a function.

3. Graph $y = x - 3$

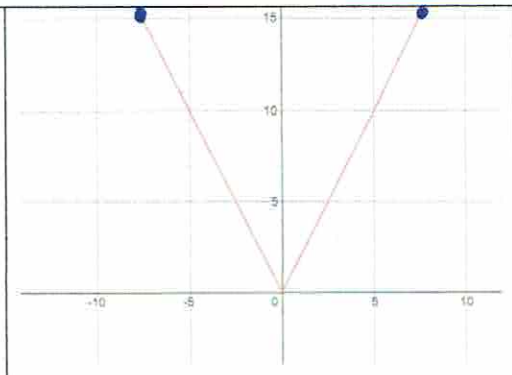
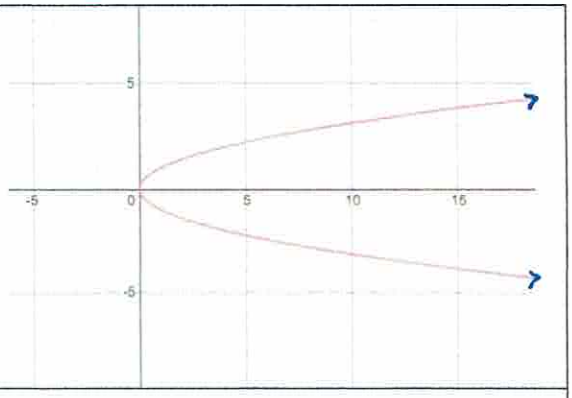


4. Determine the x-intercept of the graph in question 3. _____.

5. Determine the y-intercept of the graph in question3. _____

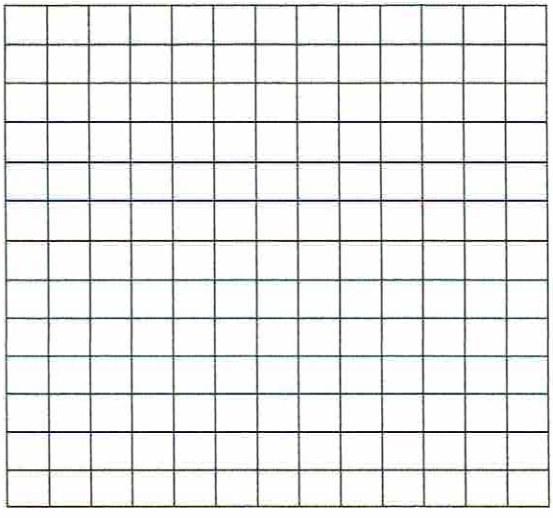
Level 3

1. Using an interval or a set notation, express the domain and range of the given relations.

Relation		
Domain		
Range		
Is the given relation a function? (Yes or No)		

2. Determine whether the graphs above show a function.

3. Graph $3x - 2y + 4 = 0$



4. Determine the x-intercept of the graph in question 3. _____ .

5. Determine the y-intercept of the graph in question3. _____

Level 4

1. Sketch a graph of a relation with given properties.

	Not a function	Function
Domain	$\{x\| -3 \leq x < 5, x \in \mathbb{R}\}$	$\{x\|x < 8, x \in \mathbb{R}\}$
Range	$\{y\|0 < y < 6, y \in \mathbb{R}\}$	$\{y\| -4 < y < 2, y \in \mathbb{R}\}$
Relation		

2. Determine an equation of a line that is <u>perpendicular</u> to $2x + 3y - 10 = 0$ and passes through point$(3, -5)$. Write this equation in standard form, slope-intercept form and slope-point form.

Standard Form	*Slope-Intercept Form*	*Slope-Point Form*