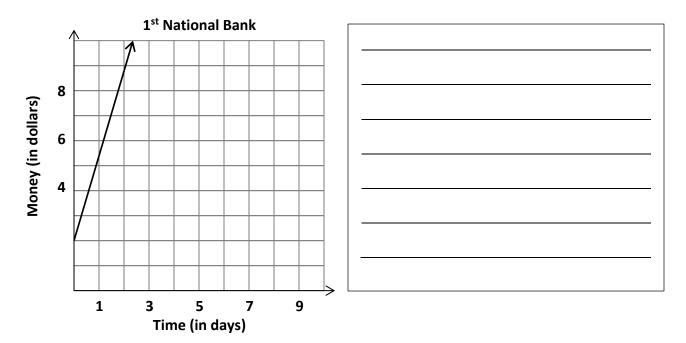
## Pre-Algebra Secondary Education MAFS.8.F.1.3



Name:			_ Date:		
1.	Select	all of the equations below that are linear functions.			
	A.	y = 3x + 6			
	В.	y-2=6(x-4)			
	C.	x + 6 = 7			
	D.	3x + 8y = 0			
	E.	y = -9			
2.	Johnny and Cage are working together to mold figurines for a craft fair. They already have 8 figurines which were left from the last craft fair. Johnny and Cage can mold 3 figurines every hour. Determine whether this situation is linear or nonlinear? Explain your reasoning				

## **Pre-Algebra Secondary Education** MAFS.8.F.1.3

3. Is the function in the graph below linear or non-linear? Explain your reasoning.



4. Select all of the following that are non-linear functions.  $(x \neq 0)$ 

A. 
$$v = 12.3(x)^2$$

B. 
$$y = 5.25x - 6$$

A. 
$$y = 12.3(x)^2$$
 B.  $y = 5.25x - 6$  C.  $x = 9.50y - 2$ 

D. 
$$v = 6.7x$$

D. 
$$y = 6.7x$$
 E.  $y = 2.25x^3 + 7$  F.  $y = 7.2x + 3$ 

F. 
$$y = 7.2x + 3$$

5. A function contains the ordered pairs below. Which statement accurately explains whether or not the function is linear?

х	у
4	7
6	3
8	1

- A. The function in not linear because the y-coordinate is not a constant multiple of the xcoordinate
- B. The function is not linear because the difference in the x-coordinate is not consistent.
- C. The function is not linear because it does not have a constant rate of change.
- D. The function is linear because both the x- and y-coordinates are constant.

## Pre-Algebra Secondary Education MAFS.8.F.1.3

