**Unit 3 Review – Features of Functions**

**I. Determine whether each is a function or not. Simply write “yes” or “no”**

1. $\left\{(-7, 2\right), \left(3, 5\right), \left(8, 4\right), \left(-6, 5\right), (-2, 3)\}$ 2.



3. 4. 



**5. 6.** $\left\{(1, -3\right), \left(3, 5\right), \left(1, 4\right), \left(-6, 5\right), (-2, 3)\}$

**II. Use the graph below to identify the key features for the function.**



Domain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Range: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Increasing Interval: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Decreasing Interval: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Constant Interval: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

x-intercept: \_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_

y-intercept: \_\_\_\_\_\_\_\_\_\_

Minimum: \_\_\_\_\_\_\_\_\_\_

**III. Use the graph of** $f(x)$ **below to find the indicated values.**



$f\left(-2\right)= \\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$ $f\left(-1\right)= \\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$

$f\left(0\right)= \\_\\_\\_\\_\\_\\_\\_\\_\\_$ $f\left(6\right)= \\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$

$$f\left(x\right)=1 if x= \\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$$

$f\left(x\right)=0 if x= \\_\\_\\_\\_\\_\\_\\_\\_\\_, \\_\\_\\_\\_\\_\\_\\_\\_\\_\\_, \\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$

******IV. Match the story to the graph by placing the story number in the blank beside each graph. The units for each graph are a measurement of time (*x*) and a measurement of distance from home (*y*)**