$\qquad$
$\qquad$ Date: $\qquad$

## UNIT 6A REVIEW

1. Which set of coordinate points is an example of a function?
1) $\{(-1,2)(2,-4)(-4,6)(3,8)\}$
2) $\{(-1,2)(2,-4)(-4,6)(-1,8)\}$
3) $\{(-1,2)(2,-4)(-4,8)(-4,8)\}$
4) $\{(-1,2)(2,-4)(5,6)(5,-4)\}$
3. Which graph does not represent a function?

## 1) <br> 

2) 


3)

4)

2. The relation defined by the set of ordered pairs $\{(0,2),(-2,2),(1,4),(4,1),(0,-1)\}$ is not a function. Which of the ordered pairs listed below, if omitted from this relation, will make the resulting set a function?

1) $(-2,-2)$
2) $(1,4)$
3) $(4,1)$
4) $(0,-1)$
4. Which diagram represents a relation that is not a function?
1) 


2)

3)

5. Given the graphs below, identify each type of function.
a)

b)

c)

6. If $f(x)=3 x+5$ evaluate the following
a. $f(-3)$
b. $f\left(\frac{2}{3}\right)$
c. $f(x)=11$
c. $g(x)=42$
8. State the domain and range of each relation.
a. $\{(1,3),(2,4),(3,3),(4,4)\}$

Domain: \{
Range: \{
b.


Domain: \{
Range: \{
9. A driver leaves home for a business trip and drives at a constant speed of 60 miles per hour for 2 hours. Her car gets a flat tire, and she spends 30 minutes changing the tire. She resumes driving and drives at 30 miles per hour for the remaining one hour until she reaches her destination. On the set of axes below, draw a graph that models the driver's distance from home.

10. What is the average rate of change for the following intervals:
a. 0-50 seconds
b. $50-70$ seconds

c. 70-100 seconds
d. 100-120 seconds
e. Find $f(40)$
f. Find $f(70)$
g. Find x if $f(x)=120$
h. Find x if $f(x)=40$

