

Topic 2.1  
 Relations and Functions  
 Homework

Name: \_\_\_\_\_

Date: \_\_\_\_\_

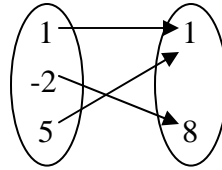
**State the domain and range of each relation.**

1.  $\{(1,3), (4,7), (-2,8), (1,9)\}$

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

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

2.

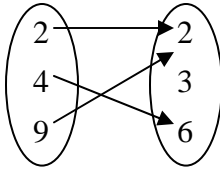


Domain: \_\_\_\_\_

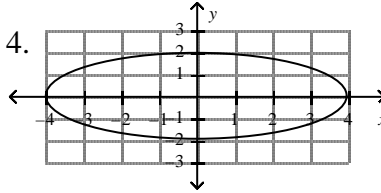
Range: \_\_\_\_\_

**State whether the relation is a function or not.**

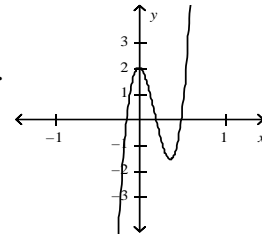
3.



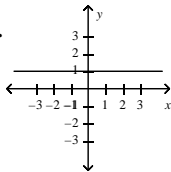
4.



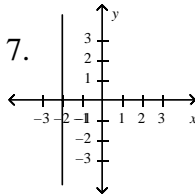
5.



6.



7.



8.

x	y
3	4
3	5
3	6

9.

x	y
7	4
8	4
9	4

**Find each value if  $f(x) = 7x + 2$  and  $g(x) = 4x - \frac{x}{2}$ .**

10.  $f(-7)$

11.  $g(8)$

12.  $f\left(\frac{8}{14}\right)$

13.  $g(-6n)$

**Find each value of  $f(x) = \frac{x^2 + 2x - 4}{x + 6}$ .**

14.  $f(4)$

15.  $f(-8)$