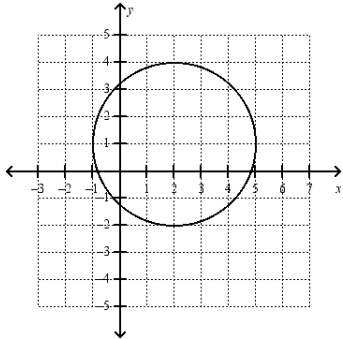


# Assignment 27

1.



Domain:

The domain are the \_\_\_\_\_ values.

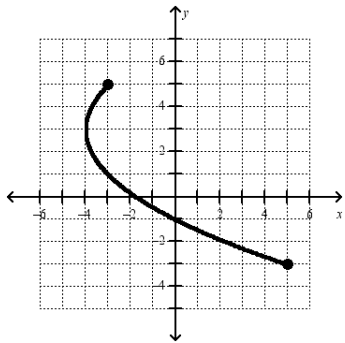
So the domain is  $\text{_____} \leq x \leq \text{_____}$

Range:

The range are the \_\_\_\_\_ values.

So the range is  $\text{_____} \leq y \leq \text{_____}$

2.



Domain:

The domain are the \_\_\_\_\_ values.

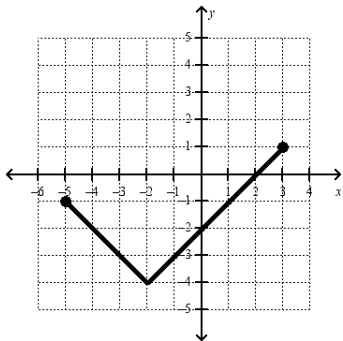
So the domain is  $\text{_____} \leq x \leq \text{_____}$

Range:

The range are the \_\_\_\_\_ values.

So the range is  $\text{_____} \leq y \leq \text{_____}$

3.



Domain:

The domain are the \_\_\_\_\_ values.

So the domain is  $\text{_____} \leq x \leq \text{_____}$

Range:

The range are the \_\_\_\_\_ values.

So the range is  $\text{_____} \leq y \leq \text{_____}$

Name \_\_\_\_\_

## Word Problems: $y=mx+b$ type

1. A fishing lake was stocked with 300 bass. Each year, the population decreases by 25. Write an equation stating the population of bass ( $P$ ) as a function of time ( $t$ ) in years. Use the equation to find the bass population after 7 years.

2. A bamboo plant is growing at a rate of 1.25 feet per day. When you first measure it, it is 4 feet tall. Write an equation to describe the height  $H$ , in feet of the bamboo plant  $t$  days after you start measuring it. Use the equation to find the height of the plant after 6 days.

3. A bank employee notices an abandoned checking account with a balance of \$412. If the bank charges a \$4 monthly service fee, write an equation describing the amount of money ( $A$ ) in the account after  $n$  months. Use the equation to find out in how many months the account balance will be zero

4. To thaw a specimen stored at  $-25^{\circ}\text{C}$ , the temperature of a refrigeration tank is raised  $5^{\circ}\text{C}$  every hour. Write an equation relating the temperature ( $T$ ) of the tank to the number of hours ( $t$ ) after the thawing was started. If the thawing started at 8a.m. use the equation to find at what time will the tank reach  $20^{\circ}\text{C}$ .