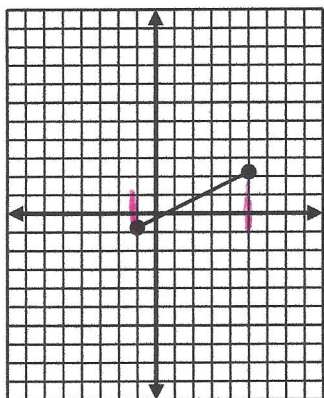


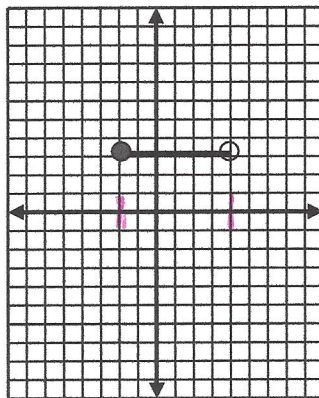
For each problem: a) State the domain  
 b) State the range  
 c) Determine if the graph is a function

1.



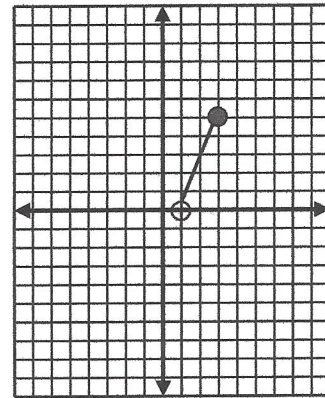
D a)  $[-1, 5]$   
 R b)  $[-1, 2]$   
 c) yes

2.



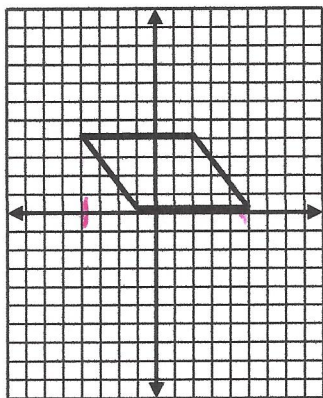
D a)  $[-2, 4)$   
 R b) 3  
 c) yes

3.



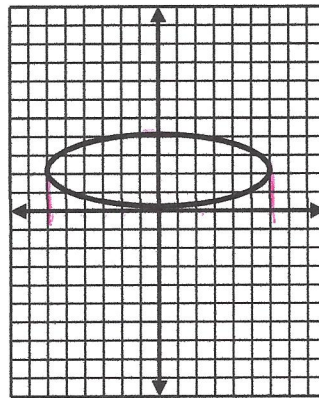
D a)  $(1, 3]$   
 R b)  $[0, 5]$   
 c) yes

4.



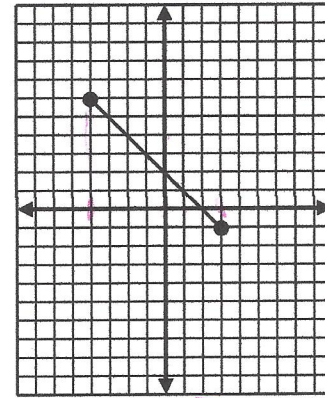
D a)  $[-4, 5]$   
 R b)  $[0, 4]$   
 c) no

5.



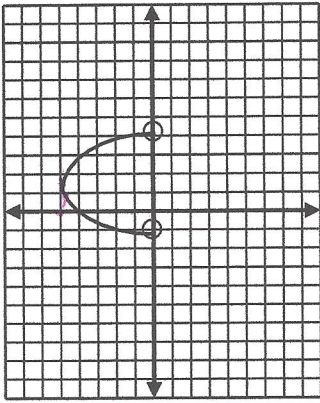
D a)  $[-6, 6]$   
 R b)  $[0, 4]$   
 c) no

6.



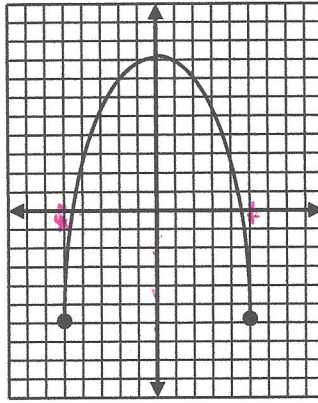
D a)  $[-4, 3]$   
 R b)  $[-1, 6]$   
 c) yes

7.



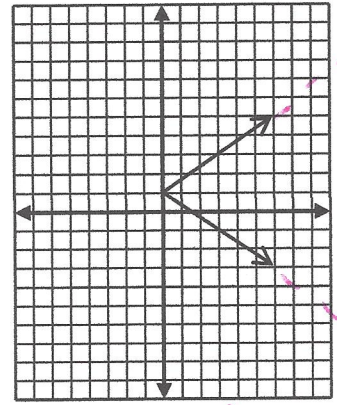
- D a)  $[-5, 0)$   
 R b)  $(-1, 4)$   
 c) no

8.



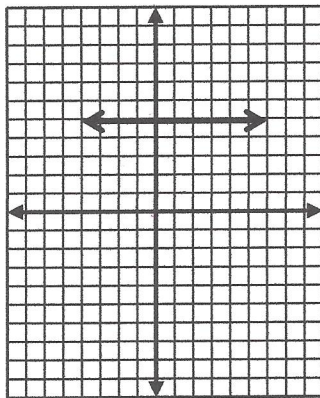
- D a)  $[-5, 5]$   
 R b)  $[-6, 8]$   
 c) yes

9.



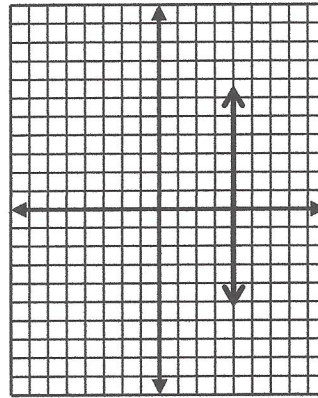
- D a)  $[0, \infty)$   
 R b)  $(-\infty, \infty)$   
 c) no

10.



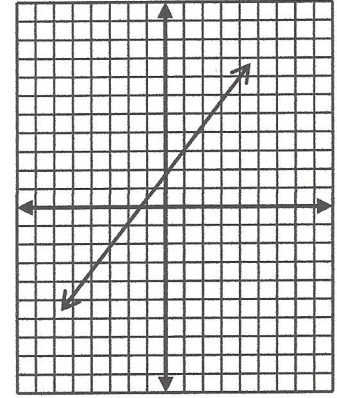
- D a)  $(-\infty, \infty)$   
 R b) 5  
 c) yes

11.



- D a) 4  
 R b)  $(-\infty, \infty)$   
 c) no

12.



- D a)  $(-\infty, \infty)$   
 R b)  $(-\infty, \infty)$   
 c) yes

13. Tara's car travels about 25 miles on one gallon of gas. She has between 10 and 12 gallons of gas in the tank.

a) List the independent and dependent quantities.

independent  $\rightarrow$  gallons of gas  
 dependent  $\rightarrow$  mileage

b) Find the reasonable domain and range values.

domain 10-12 gallons  
 range 250-300 miles

c) Write the reasonable domain and range as inequalities.

$$10 \leq x \leq 12 \quad 250 \leq y \leq 300$$

14. Sal and three friends plan to bowl one or two games each. Each game costs \$2.50.

a) List the independent and dependent quantities.

independent games played  
 dependent cost

b) Find the reasonable domain and range values.

domain 3-6 games  
 range \$ 7.50 - \$ 15

c) Write the reasonable domain and range as inequalities.

$$3 \leq x \leq 6, \quad 7.50 \leq y \leq 15$$