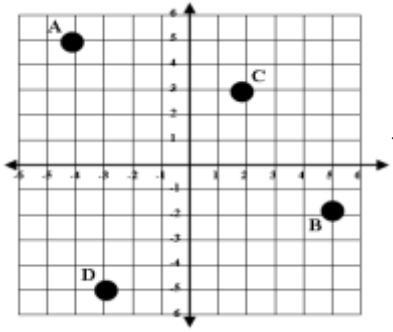


1. Coordinate Plane Review



IDENTIFY THE GIVEN POINTS:	
A (-4, 5)	C (2, 3)
B (5, -2)	D (-3, -5)

Find the domain (x's) =  $\{-4, -3, 2, 5\}$   
 Find the Range (y's) =  $\{-5, -2, 3, 5\}$

2. Express the relation as a table.  $\{(3,2), (-1,4), (0,-3), (-3,4), (-2,-2)\}$  Is this relation represent a function?  
 Find the domain and the range.

x	y
3	2
-1	4
0	-3
-3	4
-2	-2

yes this relation is a function  
 $D = \{3, -1, 0, -3, -2\}$   
 $R = \{2, 4, -3, -2\}$

3. Ordered Pairs: State whether each set is a function. Answer yes or no. Find the domain and the range.

- $\{(2, 5), (5, 6), (2, -6), (3, 8)\}$  NO Domain:  $\{2, 3, 5\}$  Range:  $\{-6, -6, 6, 8\}$
- $\{(1, -2), (8, -4), (-3, 8), (-1, 2)\}$  YES Domain:  $\{-3, -1, 1, 8\}$  Range:  $\{-4, -2, 2, 8\}$
- $\{(1, 4), (1, 5), (1, 6), (1, 7)\}$  NO Domain:  $\{1\}$  Range:  $\{4, 5, 6, 7\}$

4. Use the vertical line test to determine whether each graph is the graph of a function. Answer yes or no.

NO

YES

YES

NO

YES

NO

5. **Function Notation:** Use  $f(x) = x^2 - 3$  and  $g(x) = 4x - 1$  to find each value.

a)  $f(-3) = (-3)^2 - 3 = 9 - 3 = 6$

b)  $g(-7) = 4(-7) - 1 = -28 - 1 = -29$

c)  $f(-5) + 8 = (-5)^2 - 3 + 8 = 25 - 3 + 8 = 22 + 8 = 30$

d)  $f(3c) = (3c)^2 - 3 = 9c^2 - 3$

e)  $g(w-7) = 4(w-7) - 1 = 4w - 28 - 1 = 4w - 29$

6. The function  $g(x) = 160 + 1.5x$  models the weight gain of a basketball player as he starts a workout program where  $g$  is the weight after  $x$  weeks. Evaluate  $g(6)$  and explain the meaning.

$$g(6) = 160 + 1.5(6)$$

$$= 160 + 9$$

$$= 169$$

The weight after 6 weeks