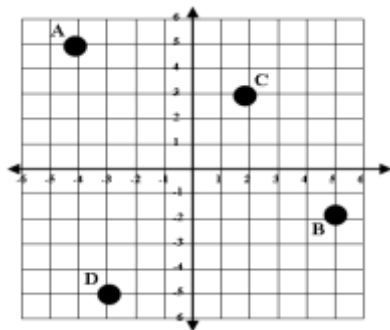


1. Coordinate Plane Review

**IDENTIFY THE GIVEN POINTS:**

A	$(-4, 5)$	C	$(3, 3)$
B	$(5, -2)$	D	$(-3, -5)$

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

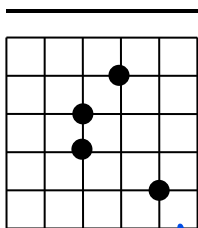
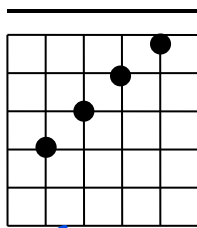
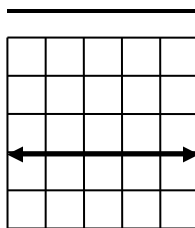
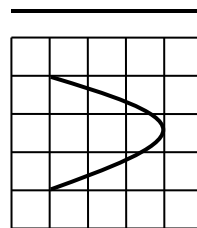
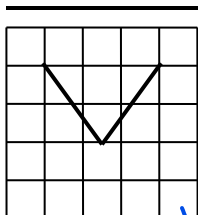
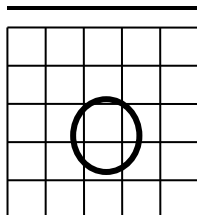
Find the domain and the range.

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

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

 $\{(2, 5), (5, 6), (2, -6), (3, 8)\}$ Not a functionDomain: $\{2, 3, 5\}$ Range: $\{-6, 5, 6, 8\}$ $\{(1, -2), (8, -4), (-3, 8), (-1, 2)\}$ functionDomain: $\{-3, -1, 1, 8\}$ Range: $\{-4, -2, 2, 8\}$ $\{(1, 4), (1, 5), (1, 6), (1, 7)\}$ Not functionDomain: $\{1\}$ 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.

Not functionfunctionfunctionNot a functionfunctionNot function

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.

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

$$= 160 + 9 = 169 \text{ lbs}$$

1—/