4-1 Relations ANSWERS

Consider the given relation and state the domain and range of that relation.

1. $\{(-2,4),(-1,5),(2,6),(1,7)\}$

   Domain = $\{-2,-1,2,1\}$ Range = $\{4,5,6,7\}$

2. $\{(-1,4),(5,5),(-2,6),(8,7),(5,-3)\}$

   Domain = $\{-1,5,-2,8,\}$ Range = $\{4,5,6,7,-3\}$

3. $\{(-1,1),(0,5),(2,2),(1,3)\}$

   Domain = $\{-1,0,2,1\}$ Range = $\{1,5,2,3\}$

4. $\{(-4,9),(6,8),(-12,1),(2,-7),(-5,3)\}$

   Domain = $\{-4,6,-12,2,-5\}$ Range = $\{9,8,1,-7,3\}$
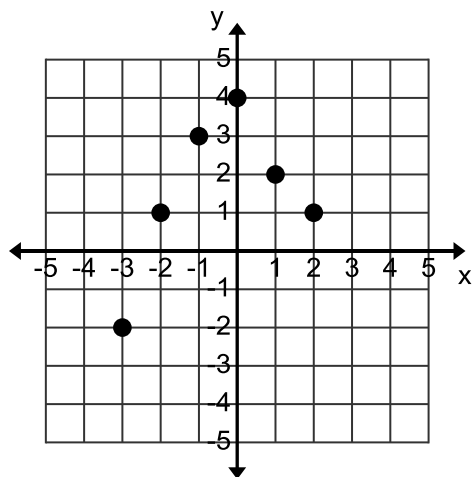
5. $\{(-2,9),(2,-8),(-2,10),(2,-7)\}$

   Domain = $\{-2,2\}$ Range = $\{9,-8,10,-7\}$

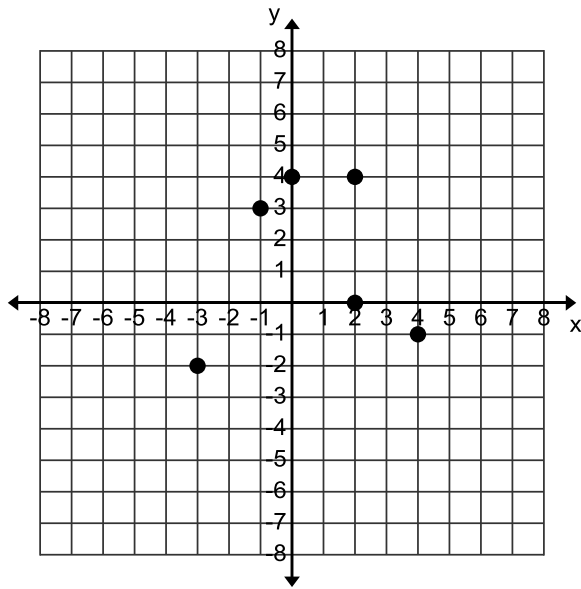**From the graph below determine the ordered pairs and then give the domain and the range.**

Ordered pairs = (-3,-2) (-2,1) (-1,3) (0,4) (1,2) (2,1)

Domain = $\{-3,-2,-1,0,1,2\}$ Range = $\{-2,1,3,4,2\}$

Plot the following points on the grid below. Label each point.

A = (2, 4)   B = (-1, 3)   C = (0, 4)   D = (-3, -2)   E = (4, -1)   F = (2, 0)

Use the t-chart to plot the points on the graph below.

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