(20)

Relations & Functions

Relation: a set of ordered pairs: (x, y)

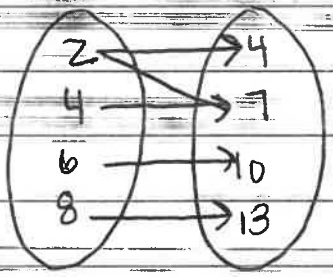
Domain: the x-values of a relation (or input)

Range: the y-values of a relation (or output)

Function: a special type of relation where every x-value has exactly one y-value (x's can't repeat)

Ordered Pair: {(2,4), (4,7), (6,10), (8,13), (2,7)}

Mapping Diagram



Tables

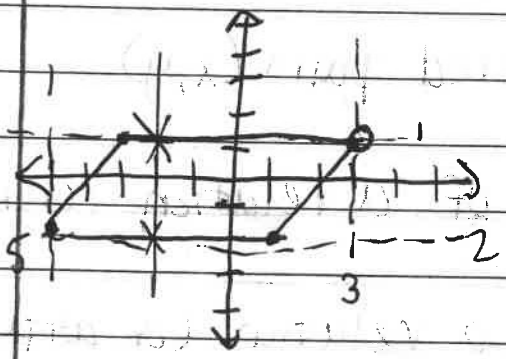
x	y
2	4
4	7
6	10
8	13
2	7

Domain: 2, 4, 6, 8

Range: 4, 7, 10, 13

Function: No because the 2's repeat

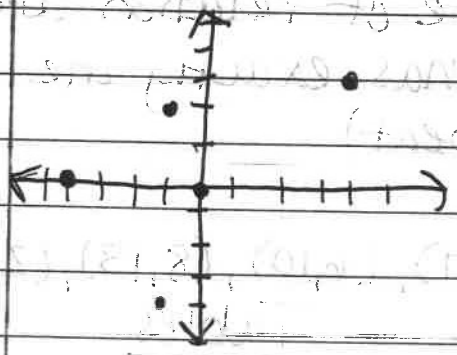
Domain, Range & Function on a Graph



D: $-5 \leq x < 3$ or $[-5, 3)$

R: $-2 \leq y \leq 1$ $[-2, 1]$

F: No



$(-4,0)(-1,2)(-1,-5)(0,0)(4,3)$

D: $-4, -1, 0, 4$

R: $0, 2, -5, 0, 3$

F: No