Algebra II

G-1

Ordered Pairs

Definitions

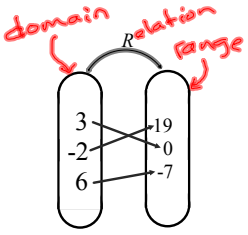
Domain - Set of all possible inputs, usually x (independent variable)

Range - Set of all possible outputs, usually y (dependent variable)

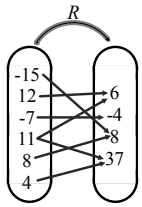
Relation - a rule or a map that assigns inputs to outputs.

Ordered Pair - (x, y) ; an output assigned to an input by a relation

Maps



(3,0)
(-2,19)
(6,-7)



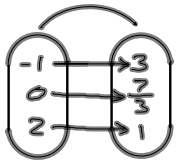
(-15,8) (11,6)
(12,6) (11,37)
(-7,-4) (8,8)
(4,37)

Map

~~Solve~~ each equation if the domain of x is { -1, 0, 2 }. (pg 104)

1) $2x + 3y = 7$

$2(-1)+3y=7$
$-2+3y=7$
$3y=9$
$y=3$



$2(0)+3y=7$
$y=\frac{7}{3}$

Complete each ordered pair to form a solution of the equation

13) $3x + 2y = 12$ (0, 6), (4 ,0), (2, 3)

x, y

$3x+2(0)=12$
$3x=12$

Solve each equation if each variable represents a whole number.

{0, 1, 2 ... 3}

27) $x + y = 4$

(0,4)
(1,3)
(2,2)
(3,1)
(4,0)

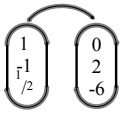
Assignment:
Pg. 104
2-38 even
wp.
2-6 even

Map 2-12

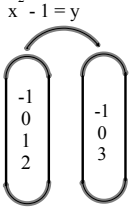
Note:
Replace 22, 24, 26 with:

Complete each map.

22) $4x - y = 2$



24) $x^2 - 1 = y$



26) $3x + 2y = 15$