Learning Outcomes Covered:

4C: I can understand that in a linear relation, a constant change in "x" produces a constant change in "y".

CONTENT Assessment Questions:

1. For each equation, make a table for the given values of x. Then create the ordered pairs and graph the ordered pairs on the grid to create a line..

a) $3x + y = 3$; for $x = 0, 1, 2$

x	y
0	3
1	0
2	-3

$3(2)+y=3$
$6+y=3$
$y=-3$

$3(0)+y=3$
$0+y=3$
$y=3$

$3(1)+y=3$
$3+y=3$
$y=0$

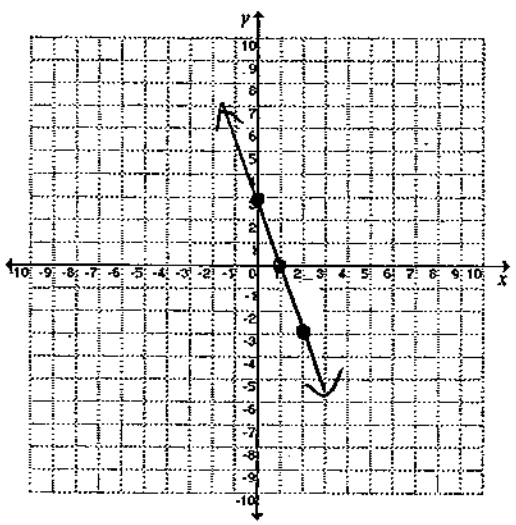
b) $x - 2y = 8$; for $x = -2, 0, 2$

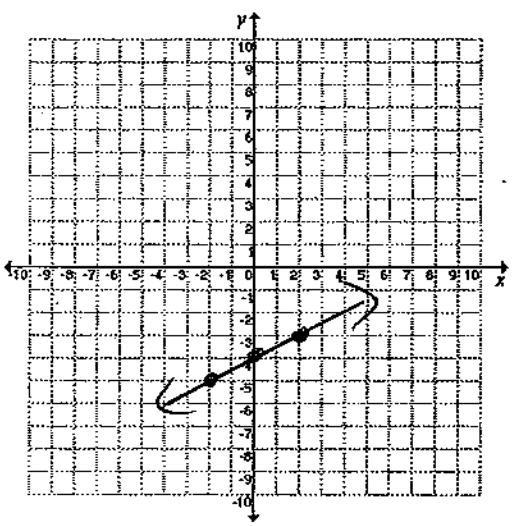
x	y
-2	-5
0	-4
2	-3

$-2-2y=8$
$-2y=10$
$y=-5$

$0-2y=8$
$-2y=8$
$y=-4$

$2-2y=8$
$-2y=6$
$y=-3$





In part a, a constant change of 1 in the x-value produces a constant change of -3 in the y-value.

In part b, a constant change of 2 in the x-value produces a constant change of 1 in the y-value.

CURRICULAR COMPETENCIES Questions:

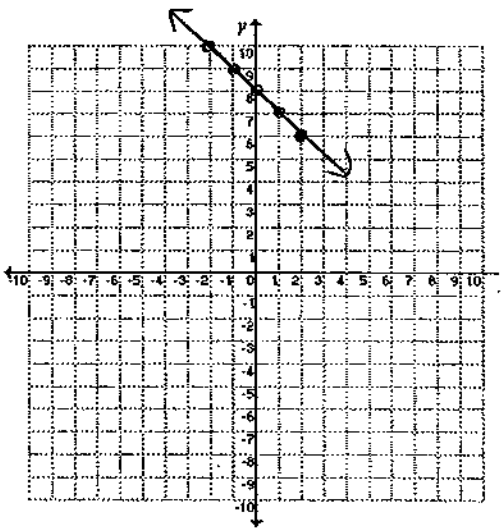
1. The sum of two numbers is 8. Let x and y represent the two numbers. (CmRp)

a) Write an equation that relates x and y.

$x + y = 8$.

b) Create a table for 5 different values of x.

x	y
-2	10
-1	9
0	8
1	7
2	6



c) Graph the data.

d) Should you join the points? Explain.

Yes, because the numbers could be decimals.

ONGOING LEARNING ACTIVITIES:

CORE: Page 179: Curricular Competencies: 9, 14, 18
Content: 10a, 15
ADVANCED: Page 180: 19, 20