Linear Relations – Exit Slip # 2 – Answer Key

1 a) Complete the table below (1 mark)

Input , x	Output , y
-1	1
0	4
1	7
2	**10**
3	**13**

b) Write an equation to describe the relationship between x and y (1 mark).

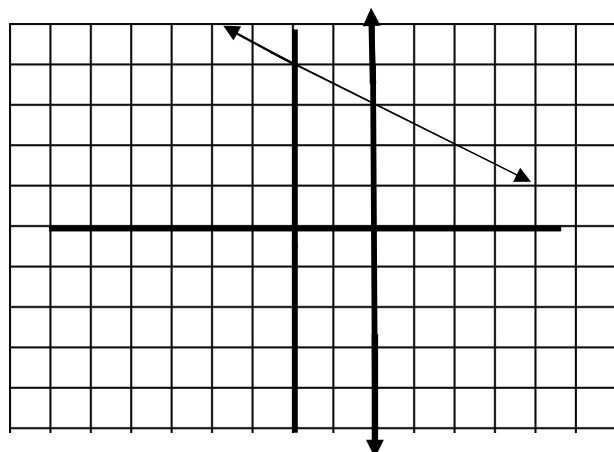**Y = 3x + 4**

c) Use your equation to find *y* when x = 6 (1 mark).

Y = 3(6) + 4   **y = 18 + 4**   **y = 22**

2 a) Graph the equation x = 2 (1 mark)
   b) The graph is a **vertical** line. (1 mark)
   c) Every point on the graph has **x** -coordinate **2** (2 marks)

3 a) Complete the table of values for
   x + 2y = 8 (2 marks)

x	y
0	**4**
1	**3.5**
2	**3**
3	**2.5**

b) Graph the equation x + 2y = 8 (1 mark)

Unit 4 Vocabulary (/21 Marks)

1	Vertical Axis	16	y-coordinate
2	Numerical Coefficient	9	Contains numbers, variables and/or operation symbols
3	Linear Relation	18	x – coordinate
4	Graph	14	A mathematical statement that shows two expressions are equal.
5	Discrete Data	5	Data on the graph that is not joined with a line.
6	Increase	12	x-axis
7	Decrease	4	A visual representation that shows a numerical relationship.
8	Pattern	7	To go down
9	Algebraic Expression	3	When the graph of a relation is a straight line.
10	Variable	20	Y = 6
11	Constant	19	X = 4
12	Horizontal Axis	8	A design or sequence that is predictable because part of it repeats.
13	Relation	21	A slanted line
14	Equation	15	How much something is worth or the output of a calculation.
15	Value	10	Y=3$\boxed{x}$ + 7
16	(2, **7**)	13	When two variables are related, they form a …
17	Ordered Pair	11	Y=3x + $\boxed{8}$
18	(**3**, 4)	17	A set of two numbers named in a specific order; represented by (x, y)
19	Vertical Line	2	Y=$\boxed{5}$x + 7
20	Horizontal Line	1	y-axis
21	Oblique Line	6	To go up