Solution of Equations and Graph Sketching 2

1 What is the domain of a variable?

2 What is the value of 2xy – z if x=½, y=2.5 and z=0.25 ?

3 Rearrange the formula v = u + at to express t in terms of v,u and a

4 Show the relationship between speed v, distance travelled s and the time taken t as a formula in terms of v, s and t

5 Solve the equations:

a. $\frac{x}{4} + 5 = \frac{x}{2}$

b. $\frac{10}{x} - 2 = \frac{4}{x}$

c. $\frac{1}{1-x} = 5$

6 Sketch the graph of the equations:

a. y = 2x + 5

b. x + y = 10

7 on the graphs in question 5, shade the regions that satisfy the inequations:

a. y < 2x + 5

b. x + y > 10