## STRAND 1 - FUNCTION
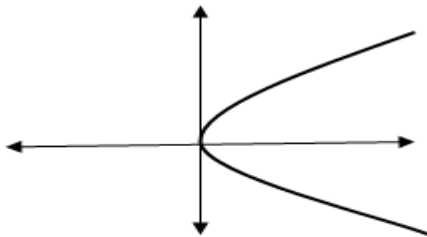
1. From the relation W = {(M, B), (A, O), (T, O) (H, K)}.  State the:
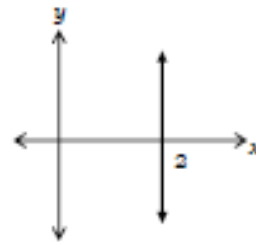
    a.    domain
    b.    range

2. Given a function g(x) = 2x + 4

   a. Evaluate g (3)

   b. For what values of x is g(x) = 10

3. State the domain and range of the following graphs



  a.                                      b.

4. A relation is given by the rule **y = x + 3,** where x ∈ I.

       Copy and complete the table

| x | -2 | -1 | 0 | 1 |
|---|----|----|---|---|
| y |    |    |   |   |

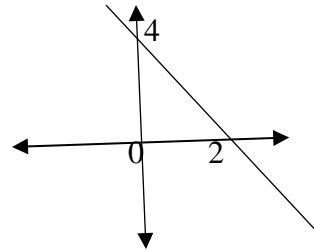5.  A relation is given by {(2,1),(3,2), (4,3)(5,4)}

    a.  Write the relation as an equation

    b.  List the function as an arrow diagram

6. Given Point A = (-2, 0 ) and Point B  = (0, 4).

   a) find the gradient of the line joining point A and B.

b) Find the equation of the line joining point A and B.
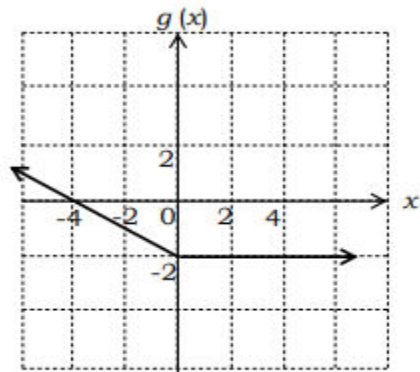
7. From the graph shown on the right, find the:



a. coordinates of x- intercept

b. coordinates of y- intercept

c. Gradient

d. Equation of the line

8. Given the inequation $y \leq 2x + 3$

   a. Find the x and y intercepts

   b. Sketch the graph of the inequation

9. The graph of a relation g(x) is given below.



   i.     What is the value of g (1) ?

   ii.    Solve for x if g(x) =0