## **Tutorial 7**

Use bisection method for the following:

1. Given that  $f(x) = x^3 + 2x - 2$ . a) Complete the following table.

x	0	1	2
f(x)			

- b) Find an interval of width 1 unit that contains a root.
- c) Find the value of the root (correct to 1 dp)
- 2. Given that  $f(x) = 2x^4 3x 5$ .
  - a) Complete the following table.

x	0	1	2	3
f(x)				

- b) Find an interval of width 1 unit that contains a root.
- c) Find the value of the root (correct to 2 dp)

## **Solutions**

1.	b) 0< root <1	c) 0.8
2.	b) 1< root <2	c) 1.47