X^3 – x +1 =0

X^3 + 1 =x

Y=x

Y=X^3 +1

Iterative method

1. X=1/2 (X^3 -5 ) --------1

Y=x

Y=1/2 (X^3 -5 )

X0=2

1. Xn+1=1/2 (Xn^3 -5 ) n=0

X1=1/2(Xo^3 -5)

=½(2^3 -5)

= 1.5

X2= -0.8125

X3= -2.768

X4= -13

Newton Raphson method

X=1/2 (X^3 -5 )

2X = X^3 – 5

0= X^3 -2X – 5

F(x) = X^3 – 2X -5

X0=2

X1= 2.1

X2= 2.094 5

X3= 2.094 4

X4= 2.094 2

NEWTON Raphson method

j) X^2 = e^x Xo= -1

X^2- e^x = 0

F(x) = X^2 – e^x

F’(x) = 2x – e^x

Xn+1 = Xn – (X^2 – e^x)/(2X – e^X)

X1= -1.5776

X2= -2.3793

X3= -3.5653

X4= -4.7424

X5= -7.1105