Assignment-04 2229,907)

Amount to the question no-1

a)
$$f(n) = n^3 + n^2 - 4n - 4$$

 $\Rightarrow f(n) = 0$
 $\Rightarrow (n) = 0$
 $\Rightarrow (n) = 0$
Now, $n^2(n+1) - 4(n+1) = 0$
 $\Rightarrow (n) = (n+1) = 0$
 $\Rightarrow (n) = (n) + n^2 + n^2 - 4$
 $\Rightarrow (n) = (n) = (n) + n^2 + n^2 - 4$
And, $n^3 + n^2 - 4n - 4 = 0$
 $\Rightarrow (n) = (n) = (n) + n^2 + n^2 - 4$
 $\Rightarrow (n) = (n) = (n) + n^2 + n^2 - 3n - 4$
 $\Rightarrow (n) = (n) = (n) + n^2 + n^2 - 3n - 4$

(Am)

b) from (a),

$$\theta_{1}(x) = \frac{x^{3}+x^{2}-9}{4}$$
 and,
 $\eta_{1}(x) = \frac{x^{3}+x^{2}-9}{4}$ $\eta_{1}(x) = -2, -1, 2$

Now, (7-1) - 31

Convervence rate for 91,

for ez,

(Au)

Ammer to the question no 2

a)
$$f(n) = xe^{x} - 1$$
; $x = 1$.
 $i = 0$; $x_0 = 1.5$
 $i = 1.5$ $f'(x_0)$
 $f'(x_0)$
 $f'(x_0)$
 $f'(x_0)$
 $f'(x_0)$
 $f'(x_0)$

$$i = 2; = 1; = 1; = 0.9890 - \frac{f(0.9890)}{f'(0.9890)}$$

(D~)

b)
$$4m = (9n-1)^{1/3}$$

 $4'(n) = \frac{9}{3(9x-1)^{2/3}}$
As $4(n) = \frac{9}{3(9x-1)^{2/3}}$

$$\lambda = |3(x)| > 1$$

$$\Rightarrow \left| \frac{3}{3(2x-1)^{2/3}} \right| > 1$$

$$\frac{1}{(9x-1)^{2/3}}$$
 $\frac{1}{3}$

$$\Rightarrow |(2x-1)^{2/3}| \Rightarrow 3$$

(Am)

Arower to the question no-3

$$\int_{0}^{\pi} f(n) = 2n^{3} - 2x - 5$$

According to NR method:

$$f'(n) = (n^2 - 2)$$

$$\therefore g(x) = x - \frac{2n^3 - 2n - 5}{6n^2 - 2}$$

(m)