81. ID- 19101573 Name - Zuhair Hossain Sec - 03

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Here,

$$n_0 = 0 \qquad ; \quad f(n_0) = 1$$

$$x_1 = 0.6$$
;  $f(x_1) = 1.8221$ 

$$\therefore \quad a_0 + a_1 \times_0 = 1$$

Again,

$$P_{r}(\pi) = a_{0} + a_{r} \pi$$

$$= 1 + 1.37\pi$$

2)
$$P_{1}(x) = 1 + 1.3x$$

$$P_{2}(0.75) = 1 + 1.3(0.75)$$

$$= 1.375$$

$$2.0275$$

$$\begin{array}{ll}
3) \\
\text{if} & f(x) = e^x; \\
\text{then,} &
\end{array}$$

According to Weierstrass theorem, we if would like to reduce the error we should the consider more nodes in the previous part.