A linear polynomial passing twough 
$$(0.1)$$
 and  $(0.63, 1.8221)$   
 $n_6 = 0$  and  $n_1 = 0.6$ 

Now 
$$P(n_0) = a_0 + a_1 n_0$$
  
 $P(n_1) = a_0 + a_1 n_1$ 

Augmented materin = 
$$\begin{bmatrix} 1 & 0 & | & 1 & 0 \\ 1 & 0.6 & | & 0 & 1 \end{bmatrix}$$

$$= \begin{bmatrix} 1 & 0 & 1 & 6 & 7 \\ 0 & 6 & 6 & -1 & 1 \end{bmatrix} = \begin{bmatrix} 1 & 6 & 1 & 6 & 7 \\ 0 & 1 & -1 & 667 & 1667 \end{bmatrix}$$

= Inverse of the Vandermonde motion

Figure, 
$$\begin{pmatrix} 1 & 0 \\ 1 & 0.6 \end{pmatrix} \begin{pmatrix} 0 & 0 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 1 \\ 1 & 0.8221 \end{pmatrix}$$

Gro,  $\begin{pmatrix} 1 & 0 & 1 \\ 1 & 0.6 & 1.8221 \end{pmatrix} = \begin{pmatrix} 1 & 0 & 1 \\ 0 & 0.6 & 0.8221 \end{pmatrix}$ 

$$= \begin{pmatrix} 1 & 0 & 1 \\ 0 & 1 & 1.3701 \end{pmatrix}$$

$$a_0 = 1$$
 and  $a_1 = 1.3701$ 

$$P(0.75) = 1 + (1.3702 \times 0.75)$$

$$= 2.02765$$

$$\approx 2.0277$$

riopit

$$L_{o}(u) = \frac{(u-0.6)(u-1.2)}{(0-0.6)(0-1.2)} = \frac{1}{0.72}(u-0.6)(u-1.2)$$

$$\frac{1}{12} \cdot \frac{1}{12} = \frac{(n-n)(n-n2)}{(n-n)(n-n2)} = \frac{(n-0)(n-1.2)}{(n-0)(n-1.2)}$$

$$: L_{2}(n) = \frac{(n-n_{0})(n-n_{1})}{(n_{2}-n_{0})(n_{2}-n_{1})} = \frac{(n-0)(n-0.6)}{(1.2-0)(1.2-0.6)}$$

Now,

manimum true errors  $= |F(u) - P(u)| = |e^{0.75} - 2.1332|$ 

= 0.0162 (Ans.)