$$\alpha_{o} = \frac{1}{3} \cdot \left[\alpha \cdot \int_{as}^{1} 1 \, dt + \int_{1}^{3} \alpha \, dt \right] \rightarrow \alpha_{o} = \frac{1}{3} \cdot \left[\alpha \cdot \left[\frac{1}{3} \right]_{o,s}^{1} + \alpha \cdot \left[$$

$$Q_{W} = \frac{3}{3} \left[3 \int_{0.5}^{1} 1 \cos(ww_{0}t) dt + \int_{1}^{2} a \cos(ww_{0}t) dt \right] - \alpha_{W} = \frac{3}{3} \cdot \left[\frac{a}{ww_{0}} \cdot \left[\Delta ew(ww_{0}t) \right]_{0.5}^{1} + \frac{a}{ww_{0}} \cdot \left[\Delta ew(ww_{0}t) \right]_{1}^{2} = \frac{3 \cdot \cancel{7}}{\cancel{7} \cdot \cancel{7}} = \frac{3}{\cancel{7} \cdot \cancel{7}} = \frac{3}{\cancel{7}} = \frac{3$$

$$C_{m} = \frac{2}{m\pi} \cdot \left[\left(\Delta L_{m} \left(\frac{2\pi m}{3} \right) - \Delta L_{m} \left(\frac{2\pi m}{3}$$

$$f_{1}(t) = 1 + \sum_{m=1}^{\infty} \frac{2}{m\pi} \cdot \left(Ae_{n} \left(\frac{\Psi_{m} T_{1}}{3} \right) - Ae_{n} \left(\frac{m\pi}{3} \right) \right) \cdot \cos \left(\frac{a\pi n t}{3} \right)$$