Answer: y(t = 0.9069) =_____



$$v(t) = \Lambda(t)$$

$$P_{\Lambda} = G_{\Lambda}$$

$$R(s) = \frac{\Lambda}{s}$$

$$L_{\Lambda} = -G_{\Lambda}$$

$$\Delta = \Lambda + G_{\Lambda}$$

$$Q_{\Lambda} = \Lambda$$

$$G_{0} = \frac{G_{\Lambda}}{\Lambda + G_{\Lambda}} = \frac{\Lambda 3}{s(s+2)} \cdot \frac{\Lambda}{\Lambda + \frac{\Lambda 3}{s^{2} + 2s}} = \frac{\Lambda}{s^{2} + 2s}$$

$$\frac{13}{s^2+2s} \cdot \frac{s^2+2s}{s^2+2s+13} = \frac{13}{s^2+2s+13}$$

$$Y(s) = RQ(G(s))$$

$$Y(s) = RQ(G(s)) = \int_{0}^{\infty} \frac{A^{3}}{S^{2} + 2s \cdot as} \int_{0}^{\infty} \frac{1}{\sqrt{1 - (0.2775)^{0}}} e^{-0.2774 \cdot \sqrt{1}as \cdot \frac{1}{3}} \cdot sin \left(\sqrt{1/3} \sqrt{1 - (0.2775)^{0}} \cdot + + 1.2837\right)$$

$$U^{2} = A^{3}$$

$$U = \frac{1}{\sqrt{1/3}}$$

$$\int_{0}^{\infty} \frac{e(0)}{1}$$

$$2 \int_{0}^{\infty} = 2 = 2 \quad \omega = 20 \Rightarrow \omega = \sqrt{1/3}$$

$$4 \int_{0}^{\infty} = \frac{1}{\sqrt{1 - \sqrt{1/3}}}$$

$$0 = -\frac{1}{\sqrt{1 - \sqrt{1/3}}}$$

Calculations deme using methols: Leplace inv. tunsform chechi





