$$V = 35 H/s$$
 $r = \frac{200}{0} \dot{\Gamma} = -\frac{200}{0^2} \ddot{0}$
 $0 = \frac{\pi}{3}$

$$V = V_1^2 + V_0^2 = 35$$

$$35 = \left(\frac{-200}{\theta^2} \dot{\theta}\right)^2 + \left(\frac{200}{\theta} \dot{\theta}\right)^2$$

$$35^2 = \frac{200^2 \dot{\theta}^2}{\theta^4} + \frac{200^2 \theta^2 \dot{\theta}^2}{\theta^4}$$

$$\dot{\theta} = \left(\frac{200^2 + 200^2 \theta^2}{\theta^4}\right) = 35^2$$

$$\dot{\theta} = \left(\frac{35^2}{4}\right)$$

$$V_1 = \dot{f} = \frac{-200}{0^2} \left(\frac{35}{35} \right)$$

$$V_{\Theta} = I_{\Theta} = \left(\frac{200}{\Theta}\right) \left(\int_{0}^{35^{2}} I()\right)$$