$$\lambda_{x} = \frac{\lambda}{\cos x}$$

$$\lambda_{y} = \frac{\lambda}{\sin x}$$

$$\frac{\lambda_{x}}{\lambda_{y}} = \frac{\lambda}{\cos x}$$

$$\frac{\sin x}{\lambda} = \frac{\sin x}{\cos x} = \frac{\sin x}{\cos x} = \frac{\sin x}{\cos x} = \frac{\sin x}{\cos x}$$

$$\frac{c}{a} = \frac{b}{c} = \frac{c}{c} = \frac{a}{a} = \frac{b}{a}$$

$$\frac{sind}{cosd} = \frac{b}{c} = \frac{c}{a} = \frac{6}{a}$$

$$\alpha = \arctan\left(\frac{\lambda_x}{\lambda_y}\right) = \arctan\left(\frac{0.84}{1.68}\right) = 0.4626,56^{\circ}$$

$$\alpha \propto = 26,56^{\circ}$$

$$\lambda = \frac{\lambda_0}{\sqrt{\epsilon_r} M_r} \stackrel{?}{=} \lambda_0 = \frac{\lambda_0}{\sqrt{\epsilon_r} M_r} = \frac{0.75}{\sqrt{16.1}} = \frac{0.75}{4} = 0.188m$$

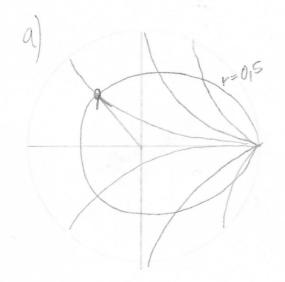
$$f = \frac{c}{\lambda_0} = \frac{0.3 \cdot 10^9}{0.188} = 1.596 \text{ GHz}$$

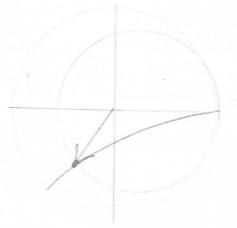
(5)  $Z_{\nu} = 5000$   $\xi_{\mu} = 0.8$  l = 40 mm f = 600 MHz  $\lambda = \frac{10^{9}}{10^{4}} \lambda_{0} \cdot \xi = \frac{c}{f} \cdot \xi = \frac{0.3 \cdot 10^{9}}{600 \cdot 10^{6}} \cdot 0.8 = \frac{1}{2} \cdot 0.84 = \frac{4000}{10^{4}} \cdot 0.46 = \frac{1}{10^{4}} \cdot 0.46 = \frac$ 

 $\lambda = 0, 4m$   $l = \lambda / 10$ 

(6) 
$$2_{V} = 200 Q$$
  $R_{K} = 50 Q$   
 $\lambda = 4m$   $V(0) = 4V$   
 $1(0) = \frac{U(0)}{R_{K}} = \frac{1}{50} = 0.02 A = 20 \text{ m} A$   
 $P(0) = \frac{20 - 7v}{7_{0} + 2v} = \frac{R - 2v}{R_{K} + 2v} = \frac{50 - 200}{50 + 200} = \frac{-30}{250} = \frac{3}{3}$   
 $V(0) = V^{2}(0) + V^{2}(0)$   $P(0) = \frac{1}{2}$   $P(0) = \frac{$ 









 $Z_{h} = 100 + jllo \Omega - Z_{v} = 50 \Omega$   $Z = 2 + j^{2}$   $Z_{v} = -j^{2} 2 - j^{2} 2 - j^{2}$   $Z_{v} = -j^{2} 2 - j^{2} 2 - j^{2}$   $Z_{v} = -j^{2} 2 - j^{2} 2 - j^{2}$   $Z_{v} = -j^{2} 2 - j^{2} 2 - j^{2}$   $Z_{v} = -j^{2} 2 - j^{2} 2 - j^{2}$   $Z_{v} = -j^{2} 2 - j^{2} 2 - j^{2}$   $Z_{v} = -j^{2} 2 - j^{2} 2 - j^{2}$   $Z_{v} = -j^{2} 2 - j^{2} 2 - j^{2}$   $Z_{v} = -j^{2} 2 - j^{2} 2 - j^{2}$   $Z_{v} = -j^{2} 2 - j^{2} 2 - j^{2}$   $Z_{v} = -j^{2} 2 - j^{2} 2 - j^{2}$   $Z_{v} = -j^{2} 2 - j^{2} 2 - j^{2}$   $Z_{v} = -j^{2} 2 - j^{2} 2 - j^{2} 2 - j^{2}$   $Z_{v} = -j^{2} 2 - j^{2} 2 - j^{2}$ 

