$$\left(\frac{z'}{y'}\right) = \left(\frac{\cos\theta}{\sin\theta} - \frac{\sin\theta}{\cos\theta}\right) \left(\frac{\pi}{y}\right)$$

$$\binom{1000}{500}$$
  $\binom{-500}{000}$  rotate, vectors  $\binom{1}{0}$  and  $\binom{0}{1}$ 

$$\theta = \frac{1}{2} \tan^{-1} \left( \frac{2p6_{x}6_{y}}{6x^{2}-6y^{2}} \right)$$