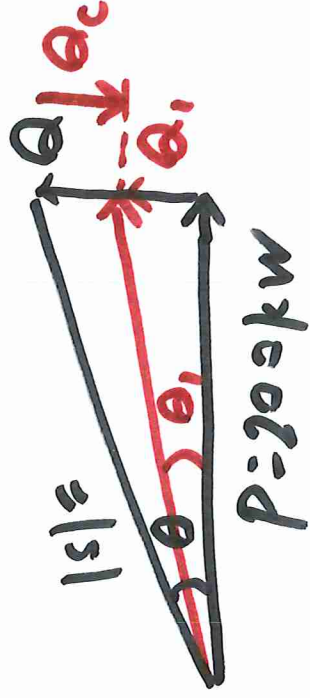
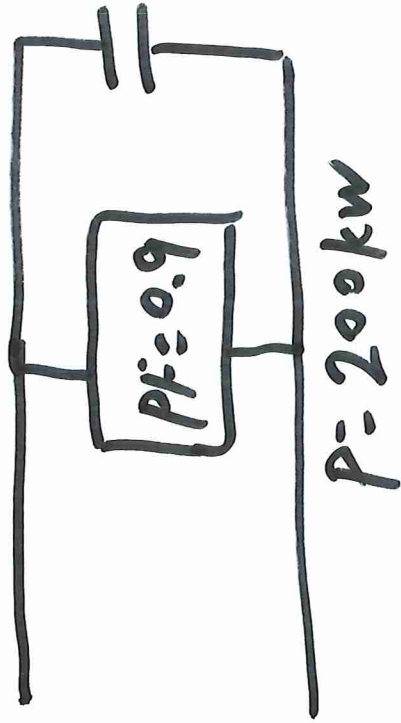


Example



$$\cos \theta = 0.9$$

$$\theta = \cos^{-1}(0.9)$$

$$\theta = 25.8^\circ$$

$$\cos \theta_1 = 0.95$$

$$\theta_1 = \cos^{-1}(0.95) = 18.19^\circ$$

$$\frac{Q_1}{P} = \tan \theta$$

$$Q_1 = P \tan \theta$$

$$Q_c = -(Q - Q_1) = -P(\tan \theta - \tan \theta_1)$$

$$= -200 \text{ k}(\tan 25.8^\circ - \tan 18.19^\circ)$$

$$= -30.96 \text{ k Var}$$