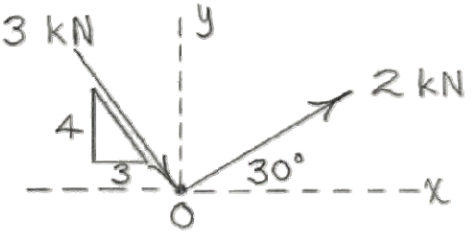
2/11



$$\begin{cases} R_x = \Sigma F_x = +3\left(\frac{3}{5}\right) + 2\cos 30^\circ = 3.53 \text{ kN} \\ R_y = \Sigma F_y = -3\left(\frac{4}{5}\right) + 2\sin 30^\circ = -1.4 \text{ kN} \end{cases}$$

$$R = \sqrt{R_x^2 + R_y^2} = \underline{3.80 \text{ kN}}$$

$$\theta = \tan^{-1}\left(\frac{R_y}{R_x}\right) = \tan^{-1}\left(\frac{-1.4}{3.53}\right) = 338^\circ \quad (\text{or } -21.6^\circ)$$