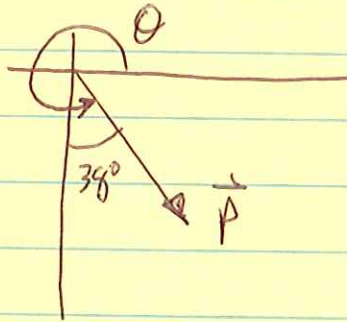
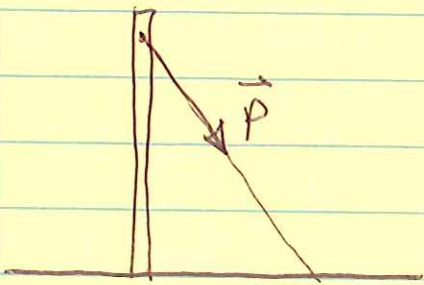


PROB. 2.30



$$\theta = 270 + 38 = 308^\circ$$

$$P_y = P \sin \theta, \quad P = \frac{P_y}{\sin \theta} = \frac{-180^{\text{N}}}{\sin 308^\circ} = 228.4^{\text{N}}$$

$$P_x = P \cos \theta = (228.4^{\text{N}}) \cos 308^\circ = 140.6^{\text{N}}$$