

1-10*

$$W = 2000(9.81) = 19,620 \text{ N}$$

$$\sum F_x = 0: \quad P - W \sin 30^\circ = 0$$

$$\sum M_A = 0: \quad 2(W \sin 30^\circ) - 2(W \cos 30^\circ) + 3N_F - 1P = 0$$

$$\sum F_y = 0: \quad N_R + N_F - W \cos 30^\circ = 0$$

$$P = 9810 \text{ N} = 9.81 \text{ kN} \nearrow 30^\circ \text{ Ans.}$$

$$N_R = 8933.806 \text{ N} \cong 8.93 \text{ kN} \nearrow 60^\circ \text{ Ans.}$$

$$N_F = 8057.612 \text{ N} \cong 8.06 \text{ kN} \nearrow 60^\circ \text{ Ans.}$$

