

H.W. # 1

Final Answers

$$1) \quad R = 7.774 \quad \approx \quad 9.531 \text{ k}$$

$$\text{angle} = 25.14 \quad \approx \quad 89.53^\circ \quad \text{from horizontal}$$

$$2) \quad F_{1v} = 173.1 \quad \approx \quad 183.1 \text{ N}$$

$$F_{1u} = 154.8 \quad \approx \quad 124.8 \text{ N}$$

$$3) \quad \theta = 80.36^\circ \quad \approx \quad 70.36^\circ$$

$$F = 788.7 \quad \approx \quad 688.7 \text{ N}$$

$$4) \quad F_B = 320.5 \quad \approx \quad 273.6 \text{ N}$$

$$F_A = ?? \text{ !! } \quad (\text{two options})$$

$$\theta = ?? \text{ !! } \quad (\text{two options})$$

$$5) \quad F_R = 185.9 \text{ N} \quad \approx \quad 175.0 \text{ N}$$

$$\theta = 67.94 \quad \approx \quad 87.02^\circ$$