

CE 201 (4#6) [081]

H.W. # 1 Final Answers

$$\begin{aligned} 1) \quad R &= 264.6 && \approx 350 && \approx ?? \\ \theta &= 19.11 && \approx ?! && \text{w/ } 300 \cdot \text{force} \\ \alpha &= 3.51 && \approx ?! && \text{w/ } x\text{-axis} \end{aligned}$$

$$\begin{aligned} 2) \quad F_a &= 420.1 && \approx 543.3 && \approx ?? \\ F_b &= 316.4 && \approx 296.5 && \approx ?? \end{aligned}$$

$$\begin{aligned} 3) \quad R &= 70.12 && \approx 25.90 && \approx ?? \\ \theta &= 58.73^\circ && \approx ? && \text{with } ?! \end{aligned}$$

$$\begin{aligned} 4) \quad R &= 171.6 && \approx 290.6 && \approx ?? \\ \theta &= 53.17 && \approx 83.06 && \approx ?? \end{aligned}$$

$$\begin{aligned} 5) \quad F_3 &= 171.7 && \approx 234.6 && \approx ?? \\ \alpha &= 26.48 && \approx 86.48 && \approx ?? \end{aligned}$$