

# CE 201 (486) [081]

## H.W. # 2 Final Answers

$$\begin{aligned}
 1) \quad R &= 216.9 & \underline{\text{or}} & \quad 240 \\
 \theta_x &= 74.72 & \underline{\text{or}} & \quad 34.35 & \underline{\text{or}} & \quad ?! \\
 \theta_y &= 54.79 & \underline{\text{or}} & \quad 35.50^\circ & \underline{\text{or}} & \quad ?! \\
 \theta_z &= 65.83 & \underline{\text{or}} & \quad 58.84^\circ & \underline{\text{or}} & \quad ?!
 \end{aligned}$$

$$2) \quad R = 259.0 \quad \underline{\text{or}} \quad 222.6$$

$$\begin{aligned}
 \Rightarrow \theta_x &= \cos^{-1} R_x / R & \text{---} & \text{---} \\
 \theta_y &= & \text{---} & \text{---} \\
 \theta_z &= & \text{---} & \text{---}
 \end{aligned}$$

$$3) \quad \theta = 75.12 \quad \underline{\text{or}} \quad 62.35^\circ$$

$$4) \quad \theta \approx 81.1 \quad \underline{\text{or}} \quad 69.5 \quad \underline{\text{or}} \quad ? ?!$$

$$T_{\perp} \approx 39.4 \quad \underline{\text{or}} \quad 49.4 \quad \underline{\text{or}} \quad ? !!$$