

CE 201 (486) [081]

H.W. # 2 Final Answers

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

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

$$\begin{array}{l}
 \Rightarrow \theta_x = \cos^{-1} R_x / R \quad \text{---} \\
 \theta_y = \quad \quad \quad \quad \quad \quad \text{---} \\
 \theta_z = \quad \quad \quad \quad \quad \quad \text{---}
 \end{array}$$

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

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

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