

CE 201-8

032

H.W. # 7

Final Answers

$$1) \quad \begin{array}{l} \text{a-} \\ \text{b-} \end{array} \quad \begin{array}{l} \text{All } \underline{\underline{N}} \\ A_y = 187.5 \quad \underline{\underline{115}} \quad 0 \\ B_{y^*} = 187.5 \quad \underline{\underline{115}} \quad 0 \\ A_x = 375 \quad \underline{\underline{115}} \quad 0 \end{array} \quad \left| \quad \begin{array}{l} A_x = 312.5 \quad \underline{\underline{115}} \quad 0 \\ A_y = 375 \quad \underline{\underline{115}} \quad 0 \\ B_{y^*} = 312.5 \quad \underline{\underline{115}} \quad 0 \end{array} \right.$$

$$c- \quad A_x = 80.4 \quad \underline{\underline{125.0}} ; \quad A_y = 235.7 \quad \underline{\underline{375}} ; \quad B_{y^*} = 160.8 \quad \underline{\underline{0}}$$

$$2) \quad A_x = 30 \quad \underline{\underline{15}} ; \quad A_y = 7.5 \quad \underline{\underline{15}} ; \quad B_{y^*} = 7.5 \quad \text{or } 30$$

$$3) \quad \text{a-} \quad A = 4362.5 \quad \underline{\underline{4050.1}} ; \quad B = 3050. \quad \underline{\underline{2437.5}} \quad \text{lb}$$

$$\text{b-} \quad W = 6000 \quad \underline{\underline{4700}} \quad \text{lb}$$

$$4) \quad \begin{array}{l} T_{EC} = 441.4 \quad \underline{\underline{1373.4}} ; \quad T_{BD} = 441.4 \quad \underline{\underline{1373.4}} \quad \text{N} \\ A_x = 1421.5 \quad \underline{\underline{---}} ; \quad A_y = 441.4 \quad \underline{\underline{---}} ; \quad A_z = 98.10 \quad \underline{\underline{---}} \end{array}$$

$$5) \quad A_x = ? ; \quad A_y = ? ; \quad A_z = 130 \quad \underline{\underline{?}}$$

$$B_{y^*} = 70 \quad \underline{\underline{?}} ; \quad T_{CD} = 0 \quad \underline{\underline{?}}$$