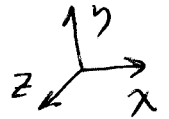


Final Answers

$$1) \quad V_a = 4,250 \text{ lb} \quad , \quad M_a = 13,750$$

$$2) \quad \vec{F}_{\text{cutting plane}} = -200\vec{i} - 600\vec{j} + 300\vec{k}$$

$$\vec{M}_{\text{cutting plane}} = 1,500\vec{i} - 3,000\vec{j} - 5,000\vec{k}$$



$$3) \quad V_{\text{max}} = 35 \text{ } \underline{\text{or}} \text{ ?} \quad , \quad V_{\text{min}} = -15 \text{ } \underline{\text{or}} \text{ ?}$$

$$M_{\text{max}} = 22.5 \text{ } \underline{\text{or}} \text{ ?} \quad ; \quad M_{\text{min}} = -100 \text{ } \underline{\text{or}} \text{ ?}$$

$$4) \quad V_{\text{max}} = 5.559 \quad ; \quad V_{\text{min}} = -3.121$$

$$M_{\text{max}} = 6.5904 \quad ; \quad M_{\text{min}} = ?$$

$$5) \quad V_{\text{max}} = 3,100 \quad ; \quad V_{\text{min}} = -1,500$$

$$M_B = 8,000 \quad ; \quad M_C = 8,500 \text{ } \underline{\text{or}} \text{ } 10,000$$

$$M_D = 3,000$$