

CE 201-485 (071)

H.W. # 10 Final Answers

$$1) \quad N_A = A_A = \pm 125 \text{ (T or C)}; \quad V_A = \pm 300; \quad M_A = \pm 40$$

$$N_B = \pm 125; \quad V_B = \pm 40; \quad M_B = \pm 1840$$

$$N_C = \pm 125; \quad V_C = \pm 220; \quad M_C = \pm 440$$

$$2) \quad \vec{F} = \pm 350 \vec{i} \pm 700 \vec{j} \pm 150 \vec{k}$$

$$N = ?; \quad V = ?; \quad ?$$

$$\vec{M} = \pm 1,200 \vec{i} \pm 750 \vec{j} \pm 1,400 \vec{k}$$

$$3) \quad V_{max}^{pos.} = 400 \text{ or } ?; \quad V_{max}^{neg.} = 200 \text{ or } ?$$

$$M_{max}^{pos.} = 2500 \text{ or } ?; \quad M_{max}^{neg.} = 933\frac{1}{3} \text{ or } ?$$

$$4) \quad V_{max}^{pos.} = 305 \text{ or } ?; \quad V_{max}^{neg.} = 100 \text{ or } ?$$

$$M_{max}^{pos.} = ?; \quad M_{max}^{neg.} = 2270 \text{ or } ?$$

$$5) \quad V_{max}^{pos.} = 520 \text{ or } ?; \quad V_{max}^{neg.} = 500 \text{ or } ?$$

$$M_{max}^{pos.} = ?; \quad M_{max}^{neg.} = 1680 \text{ or } ?$$