

CE 201 (4 & 6) [0817]

H.W. #10 Final Answers

$$\begin{aligned} 1) \quad N_A &\approx -24.57 ; V_A \approx 2.793 ; M_A \approx -31.62 \\ N_B &\approx -26.86 ; V_B \approx 2.803 ; M_B \approx 41.05 \\ N_C &\approx -26.86 ; V_C \approx -7.198 ; M_C \approx 21.59 \end{aligned}$$

\nwarrow OR \nearrow

$$\begin{aligned} 2) \quad \vec{F} &= -200\vec{i} - 600\vec{j} + 300\vec{k} \\ \vec{M} &= 1500\vec{i} - 3000\vec{j} - 5000\vec{k} \end{aligned} \left. \begin{array}{l} \text{on the left} \\ \text{or} \\ \text{right part?} \end{array} \right\}$$

$$3) \quad V_{max}^+ = 35 ; V_{max}^- = 15 ; M_{max}^+ = 22.5 ; M_{max}^- = 100 \text{ or}$$

$$\begin{aligned} 4) \quad V_{max}^+ &= 5.559 ; V_{max}^- = 3.121 \quad \text{or ?!} \\ M_{max}^+ &= 5.590 ; M_{max}^- = 0 \quad \text{or ?!} \end{aligned}$$

$$\begin{aligned} 5) \quad V_{max}^+ &= 3100 ; V_{max}^- = 1500 \quad \text{or ?!} \\ M_{max}^+ &= 10,000 ; M_{max}^- = 0 \quad \text{or ?!} \end{aligned}$$