

CE 201 (4&6) [081]

H.W. # 7 Final Answers

$$1) \quad R_A = \pm 50 \quad \underline{\text{or}} \quad \pm 121.4$$

$$R_B = \pm 150 \quad \underline{\text{or}} \quad \pm 136.9$$

$$R_C = \pm 120 \quad \underline{\text{or}} \quad \pm 163.1$$

$$2) \quad T_A = 34.12 \quad \underline{\text{or}} \quad 54.69$$

$$T_B = 22.66 \quad \underline{\text{or}} \quad 23.47$$

$$T_C = 47.66 \quad \underline{\text{or}} \quad 37.47$$

$$3) \quad F = 2147 \quad \underline{\text{or}} \quad 3159$$

$$4) \quad T_{CE} \approx 81.596 \quad \underline{\text{or}} \quad 40.123$$

$$A_x = \pm 54.2 \dots \quad \underline{\text{or}} \quad \pm 50.5 \dots$$

$$A_y = \pm 55.9 \dots \quad \underline{\text{or}} \quad \pm 64.7 \dots$$

$$A_z = \pm 34.6 \dots \quad \underline{\text{or}} \quad \pm 12.9 \dots$$

$$B_x = \pm 91.56 \quad \underline{\text{or}} \quad \pm 64.35$$

$$B_{\text{Normal}} = \pm 56.4 \dots \quad \underline{\text{or}} \quad \pm 45.17 \dots$$

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$\vec{M}_A = ?$

$\vec{M}_B = ?$

Hint: $B_y = B_N \cos 20$ and $B_z = B_N \sin 20$

$$5) \quad T_{BD} = 126.4 \quad \underline{\text{or}} \quad 200$$