

CE 201 (485)

(071)

H.W. # 6 Final Answers

1)  $T \approx 30$  or  $35$  or ?  
 $A_x \approx 28.1$  or  $25.1$  or ?  
 $A_y \approx 17.3$  or  $21.7$  or ?

2) a-  $R_A \approx 6123$  or  $5540$   $\triangle \theta = ?$

$C \approx 921$  or  $683$  ---

$M_A = 2211$

b-  $R_A \approx 5213$  or  $4900$   $\triangle \theta = ?$

$M_A \approx 1900$  or  $1890$

c-  $R_A = 6140$  or  $6740$   $\triangle \theta = ?$

$M_A = 4510$  or  $3510$

3) a-  $E_r \approx 47.5$  or  $27.7$  or ?  $\triangle \theta = ?$

$M_E \approx 60$  or  $270$  or ?

b-  $T \approx 25$  or  $16$  or ?

4)  $A_r \approx 223$  or  $269$  or ?  $\triangle \theta = ?$

$E_r \approx 223$  or  $269$  or ?  $\theta = 10^\circ$

5)  $\sin^3 \theta = \frac{3a}{L}$  or 22.11

$\theta = \sin^{-1} \sqrt[3]{3a/L}$