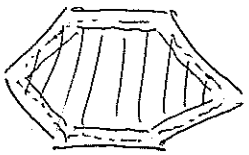
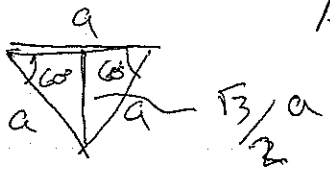
5.116

$T = 2q(A_m)$

$\tau = \tau_{allow}\, t$

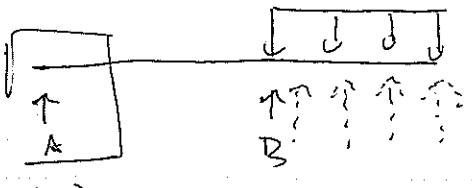


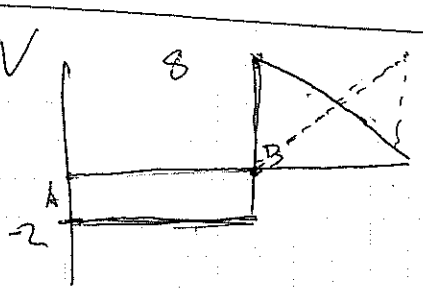


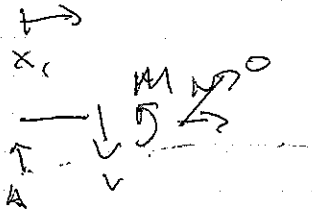
$A_m = 6(a)\left(\frac{1}{2}\right)\left(\frac{\sqrt{3}}{2}a\right)$

5.101

Ex 7.9



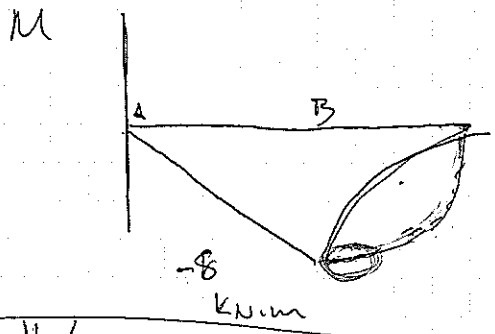




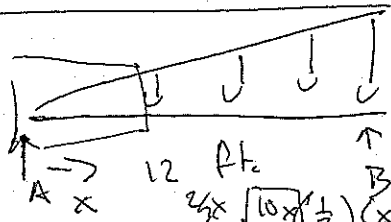
$V(x) = A$

$+\circlearrowleft \sum M_{x_1} = 0$

$= -Ax_1 + M$



Ex 7.10



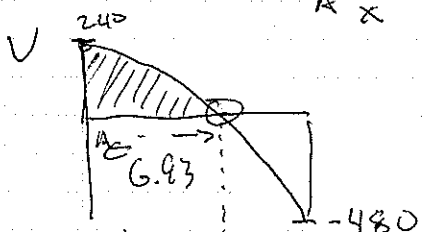
$= \frac{\leftarrow 8' \rightarrow \downarrow 720\ lb}{\uparrow A \leftarrow 12' \rightarrow \uparrow B}$

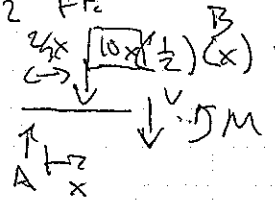
$A + B = 720$

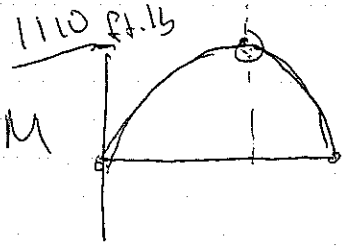
$+\circlearrowleft \sum M_A = 0 = 12B - 8(720)$

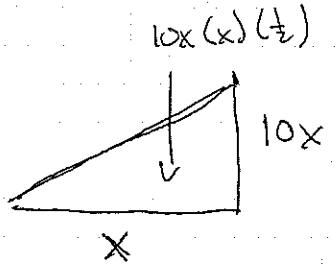
$B = 480$

$A = 240$









$+\uparrow \sum F_y = 0 = A - 5x^2 - V = 0$

$5x^2 = 240$

$x^2 = 48$

$+\circlearrowleft \sum M = 0 = M + 5x^2\left(\frac{x}{3}\right) - Ax = 0$