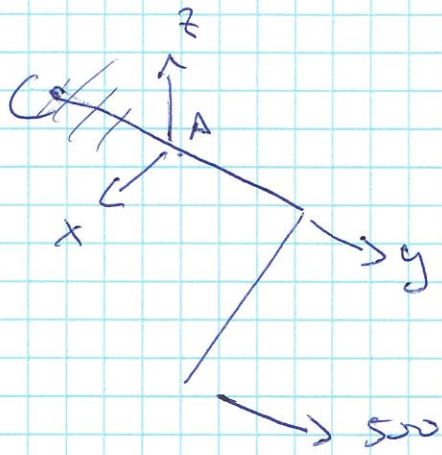
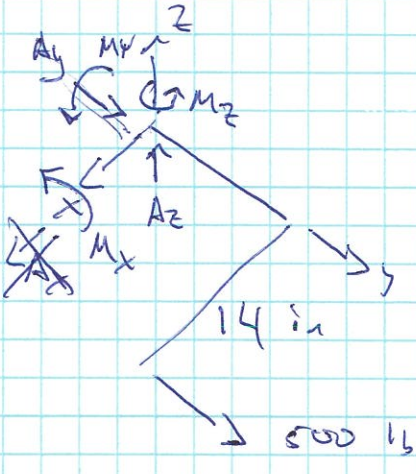
6.5





$A_x = 0$

$A_y = -500$

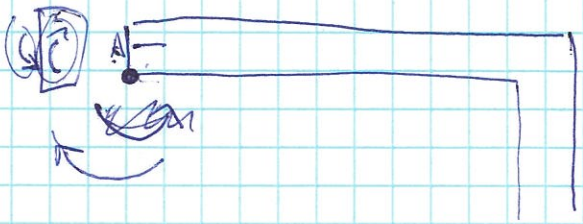
$A_z = 0$

$M_x = 0$

$M_y = 0$

$M_z = -14(500)$

$$\sigma_N = \frac{N}{A} = \frac{500}{\pi (.75)^2} = 283 \text{ psi}$$



$$\sigma_B = \frac{500(14)\ 3/4}{1/4\ \pi (.75)^4}$$

$$= 21.13 \text{ ksi}$$

$$\sigma_A = 21.4 \text{ ksi}$$