## ENGR 8 Assignment 8 In Class Problems

Ch5 - F7,F8,F9,F12,75,87
F5-7. The uniform plate has a weight of 500 lb . Determine the tension in each of the supporting cables.

$\mathrm{Ta}=350, \mathrm{~Tb}=250, \mathrm{Tc}=100 \mathrm{lb}$

F5-8. Determine the reactions at the roller support A, the ball-and-socket joint $D$, and the tension in cable $B C$ for the plate.

$\mathrm{Fa}=660 \mathrm{~N}, \mathrm{Dx}=\mathrm{Dy}=0, \mathrm{Dz}=487.5 \mathrm{~N}, \mathrm{Tbc}=352.5 \mathrm{~N}$

F5-9. The rod is supported by smooth journal bearings at $A, B$ and $C$ and is subjected to the two forces. Determine the reactions at these supports.

$A x=500 \mathrm{~N}, A z=333.3 \mathrm{~N}, B x=1400 \mathrm{~N}$,
$B z=-933.3 N, C x=-900 N, C y=-400 N$,

