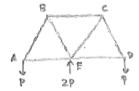
HOMEWORK 2 SOLUTIONS

Problem 1:



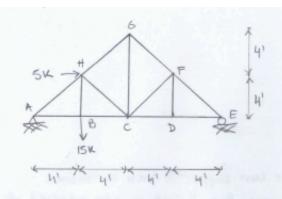
Joint A

Jant B

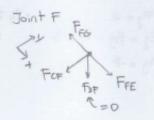
$$F_{gg} = \frac{1}{2}ZF_{g} = 0$$
; $-F_{gg} \cos 60 + F_{gg} \cos 60 + F_{gg} = 0$
 $F_{gg} = \frac{2P}{1 \cos 60}$
 $F_{gg} = \frac{2P}{1 \cos 60}$
 $F_{gg} = \frac{P}{1 \cos 60}$

Solve for smollest p

Problem 2:



a) Determine all zero force members



b) betermine forces in members OC, CH, GH. State whether forces are in tension or compression.

SK THE SK THE SK THE JB FEC

$$\pm \Sigma F_{x} = 0$$
 +5 $\pm \Sigma M_{A} = 0$ +7 $\pm \Sigma F_{y} = 0$
 $\pm \Delta X + 5K = 0$ -15 $\times (4') - 5\times (4') + \xi_{y}(16') = 0$ Ay -15 $\times + \xi_{y} = 0$
 $\pm \Delta X = -5K$ Ey = 5 \times Ay = 10 \times

Method of sections:

Solve system or equations.

Problem 3:

