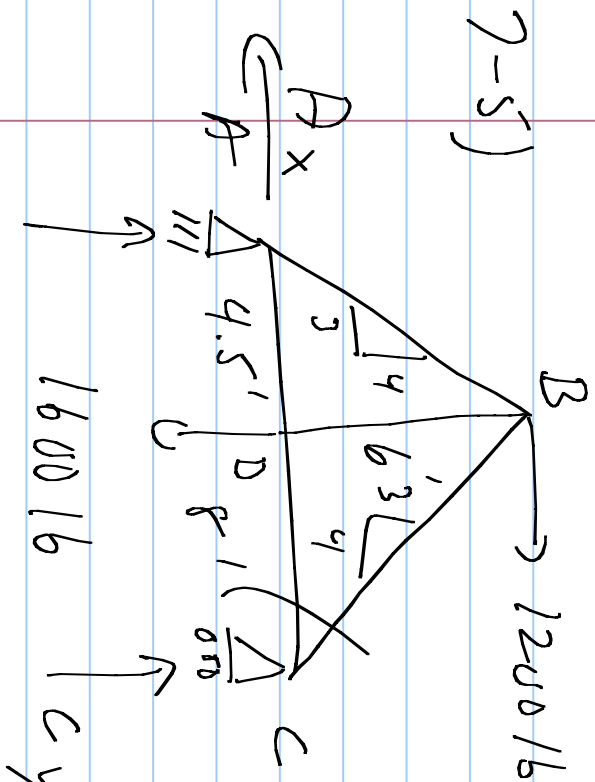


EGR 180

6/30/10

7-5) 

$$\sum F_x = -A_x + 1200 = 0$$

$$A_x = 1200 \text{ lbs}$$

$$\sum M_A = (12.5) C_y$$

$$- 4.5 (1600)$$

$$- 6 (1200) = 0$$

$$C_y = 1152 \text{ lbs}$$

$$\sum F_y = A_y - 1600 + 1152 = 0 \Rightarrow A_y = 448 \text{ lbs}$$

✓ F_{BC}

$$\sum F_y = 1152 - 0.8 F_{BC} = 0$$

F_{CD}

1152

$$F_{BC} = 1420 \text{ lbs}$$

$$\sum F_x = -F_{CD} + 0.8 F_{BC} = 0$$

F_{BD}

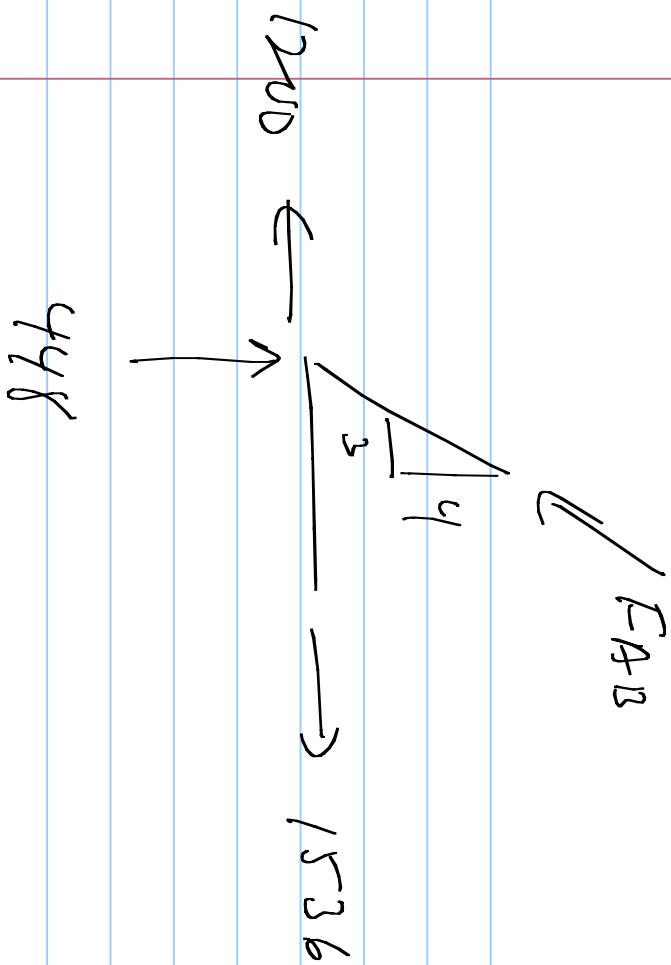
$$F_{CD} = 1536 \text{ lbs}$$

F_{AD}

$$F_{BD} = 1600 \text{ lbs}$$

$$F_{AD} = 1536 \text{ lbs}$$

1600



$$\sum F_y = -0.8 F_{AB} + 448 = 0$$

$$F_{AB} = 560 \text{ lbs}$$

Zero Force Members

