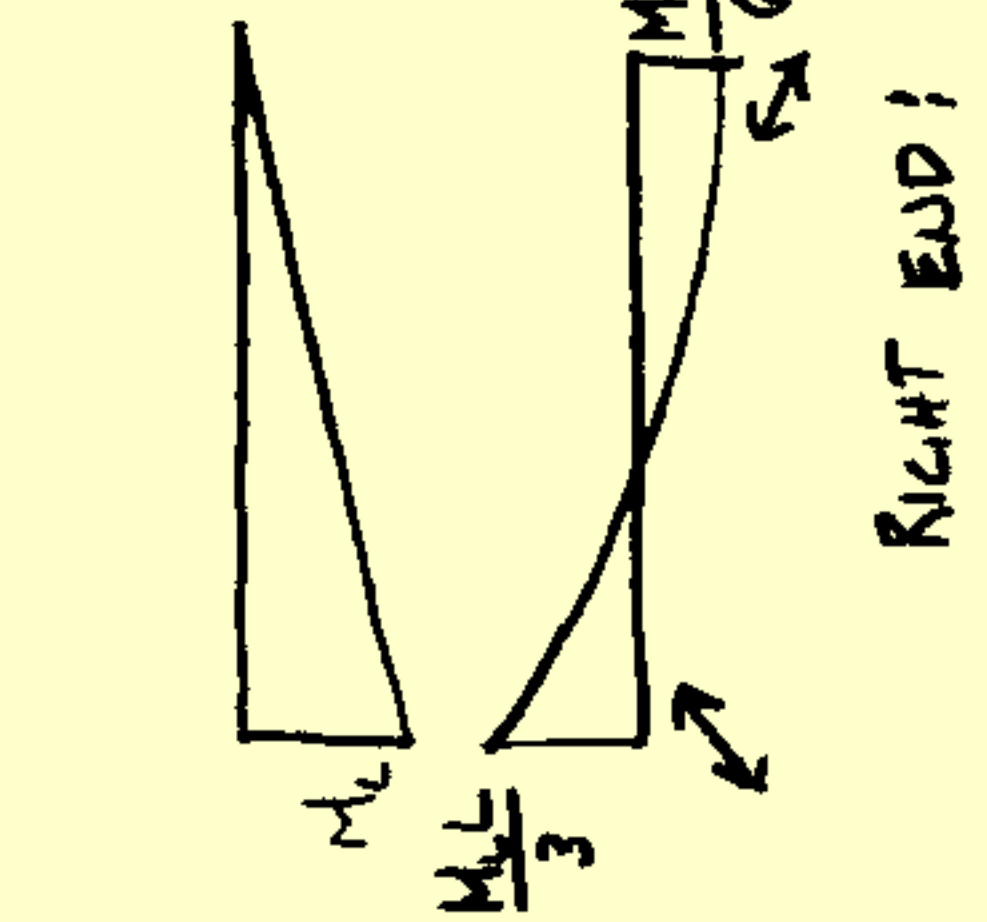
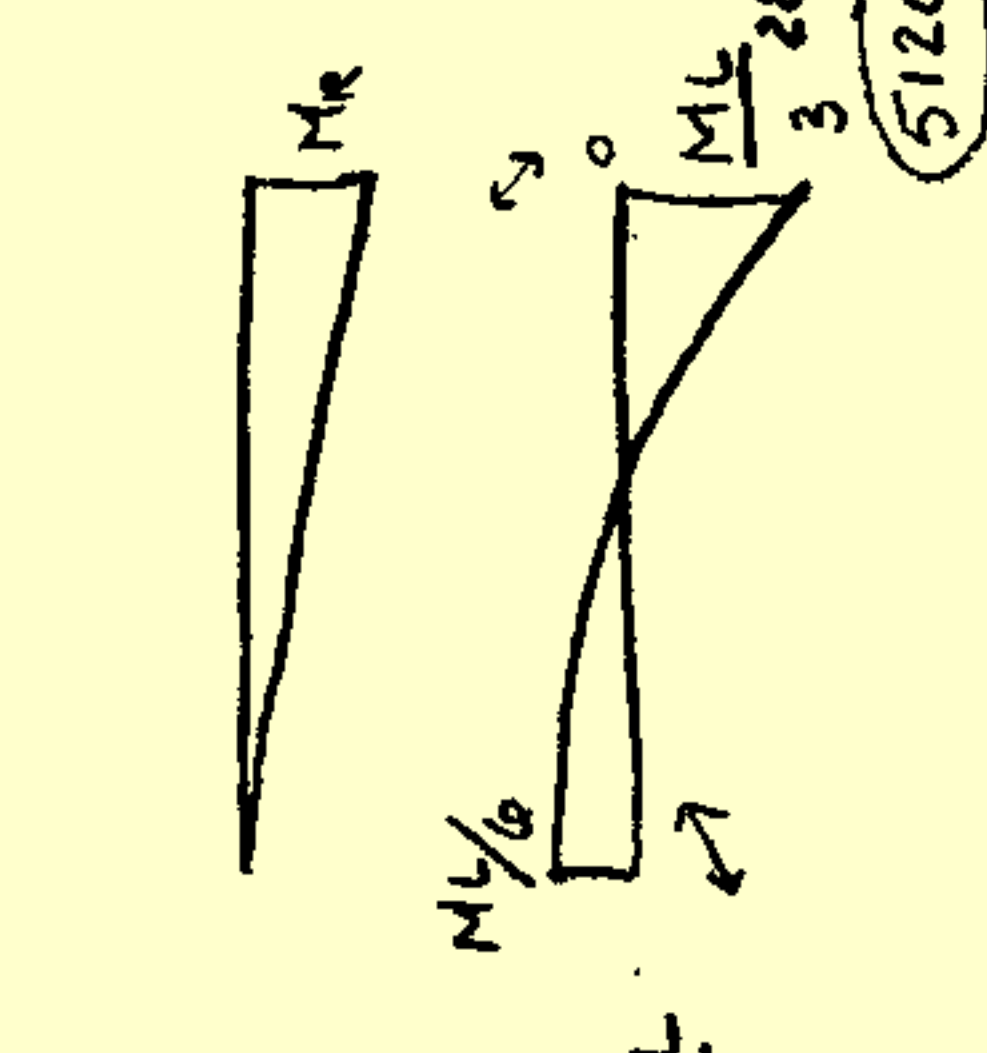
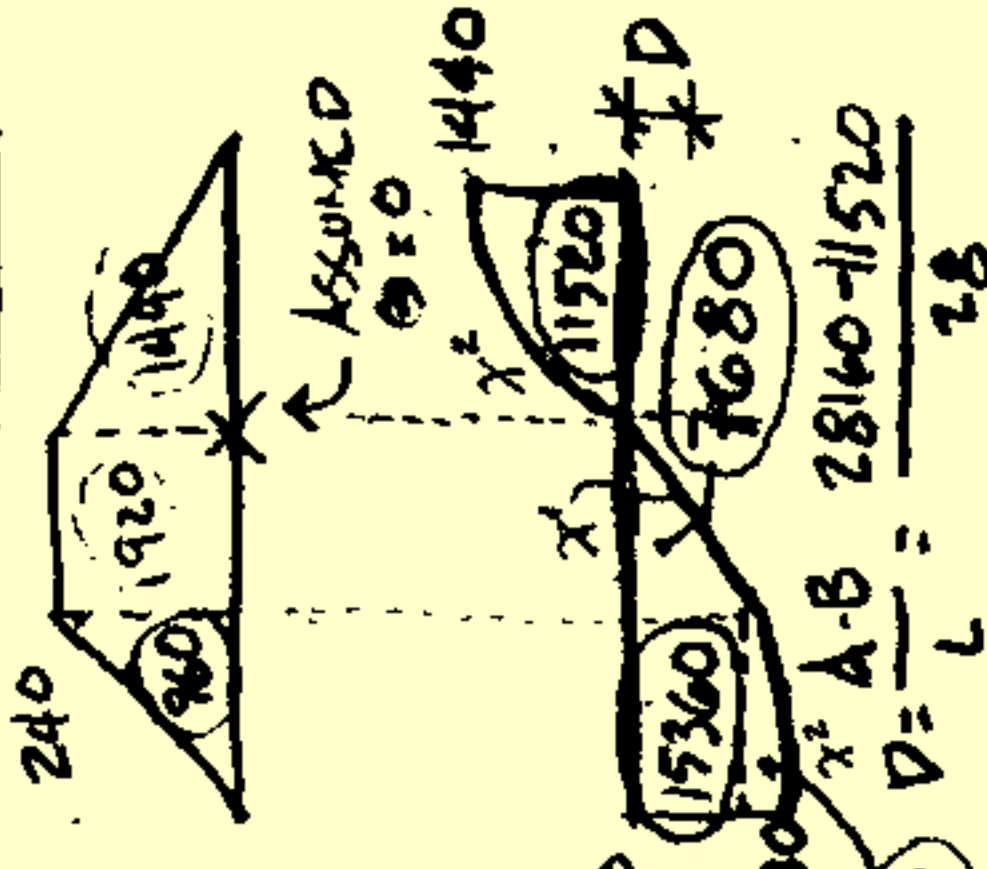
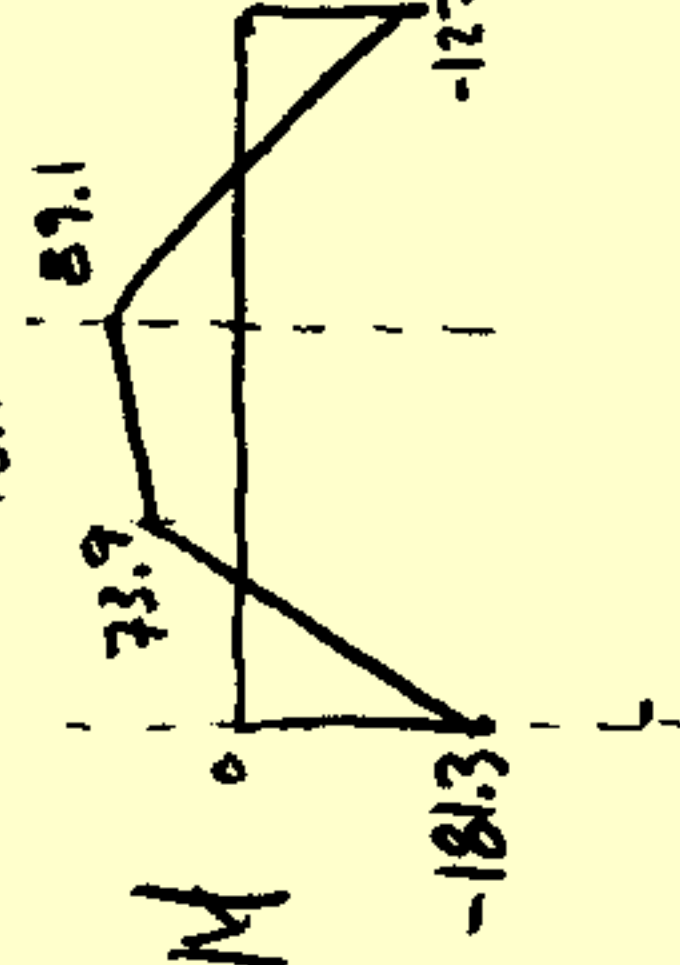
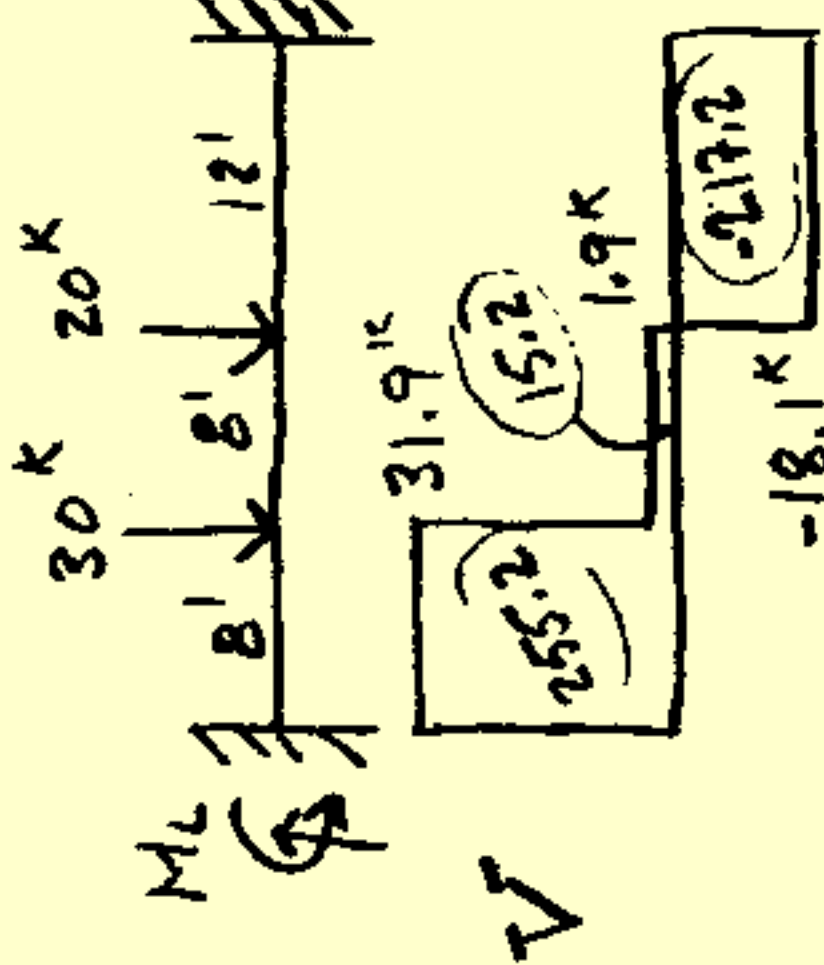
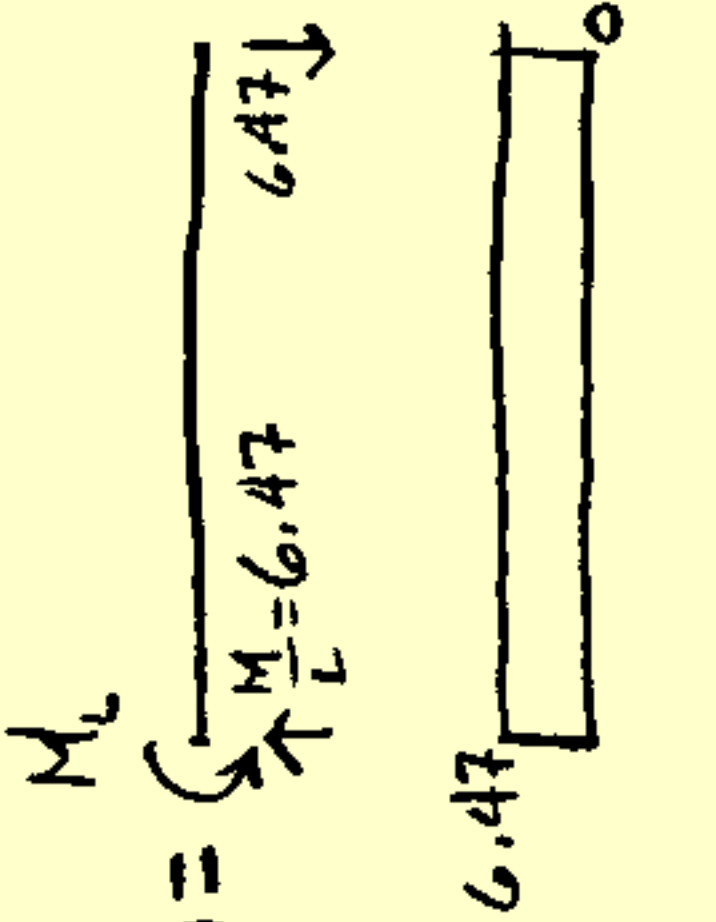
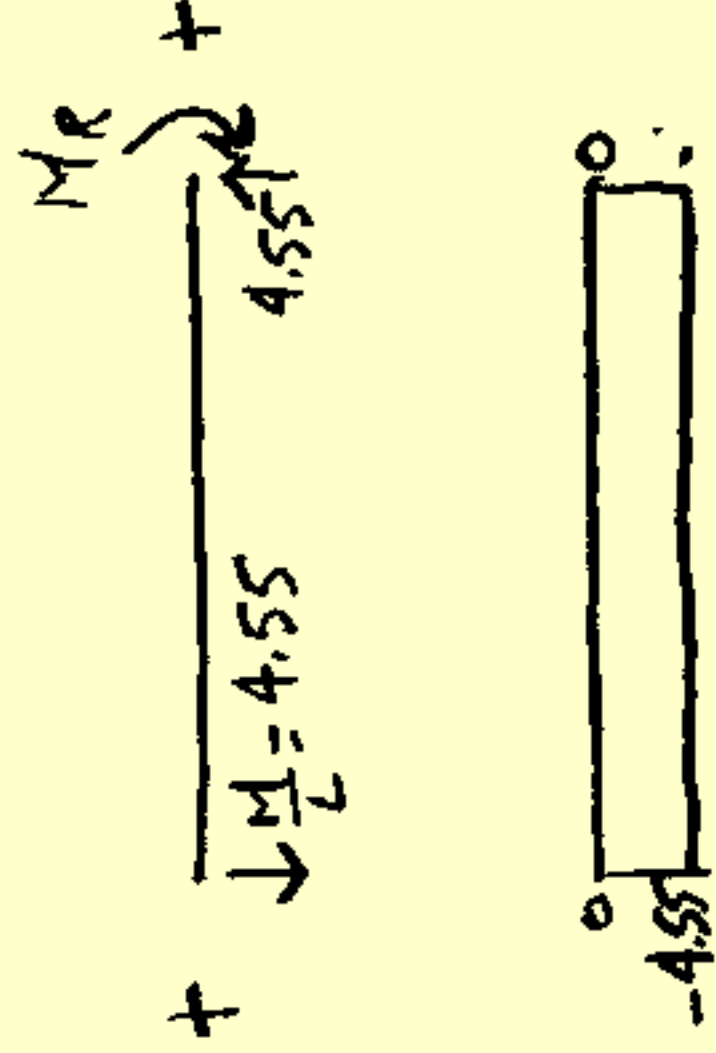
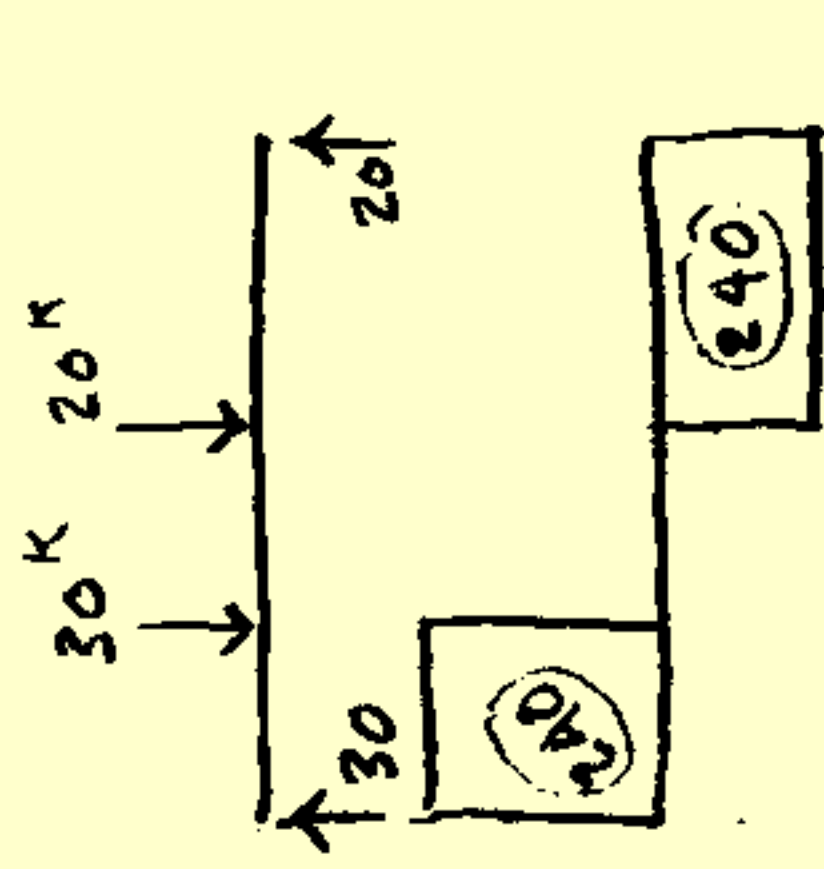


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$$D = 594.3$$

$$\theta_L = 2285.7 \curvearrowright$$

$$\theta_R = 2034.3 \curvearrowleft$$

GET SLOPE DIRECTION BY INSPECTION - LIKE SLOPE ADDS, OPPOSITE SLOPE SUBTRACTS

LEFT END:  

$$\frac{M_L 28}{3} + \frac{M_R 28}{6} - 2285.7 = 0$$

$$M_L = 2285.7 - M_R(4.667)$$

$$M_L = 244.90 - M_R(0.50)$$

$$M_L = 181.03 \text{ k-ft}$$

RIGHT END:  

$$\frac{M_L 28}{6} + \frac{M_R 28}{3} - 2034.3 = 0$$

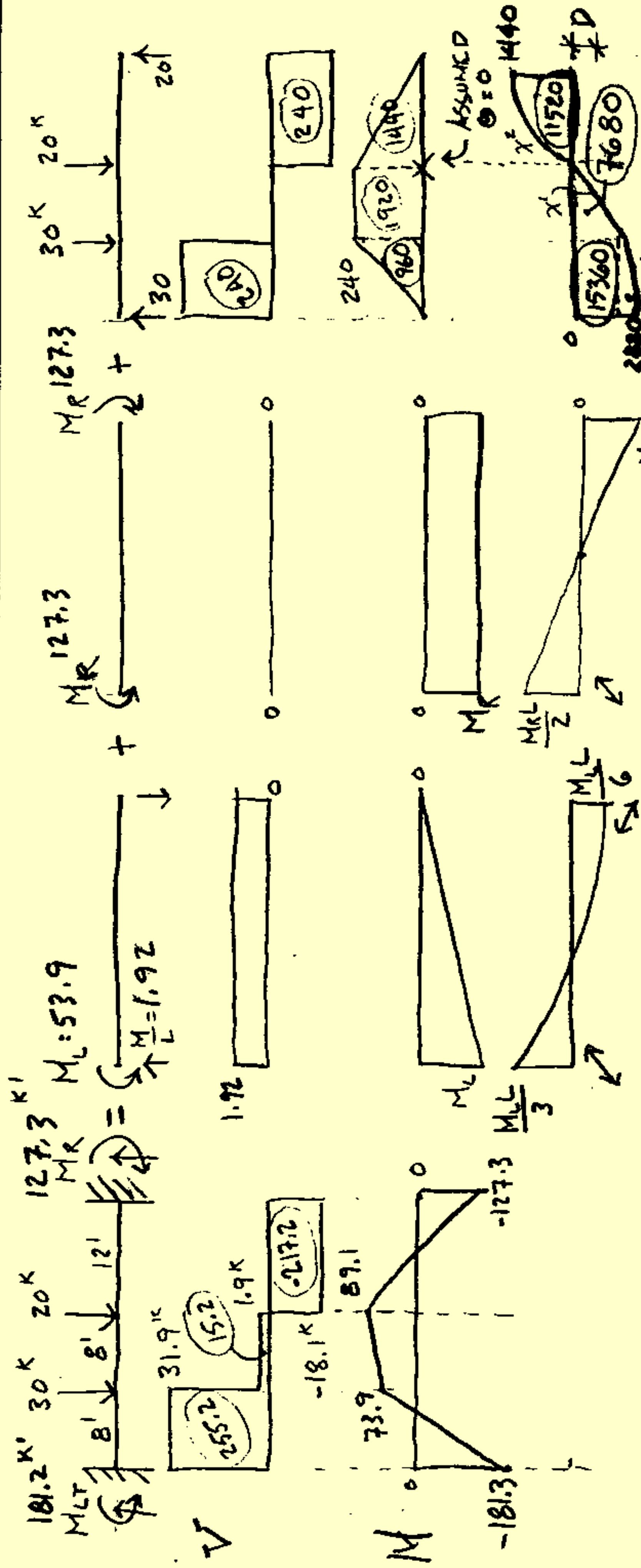
$$M_L = 435.89 - M_R(2.0)$$

$$244.9 - M_R(0.5) = 435.89 - M_R(2.0)$$

$$M_R = \frac{1782}{15.993} = 127.3 \text{ k-ft}$$

22-141 50 SHEETS  
22-142 100 SHEETS  
22-144 200 SHEETS

ALTERNATE SOLUTION



LEFT END:

$$\frac{M_{L28}}{3} + \frac{M_{R28}}{2} - 2285.7 = 0$$

$$M_L = \frac{2285.7 - M_R(14)}{9.333}$$

$$M_L = 244.9 - M_R(1.5)$$

$$M_L = 53.9 \text{ k} \cdot 1$$

$$M_{LT} = 127.3 + 53.8 = 181.2 \text{ k}'$$

RIGHT END:

$$\frac{M_{L28}}{6} + \frac{M_{R28}}{2} - 2034.3 = 0$$

$$M_L = 435.92 - M_R(3)$$

$$244.9 - M_R(1.5) = 435.92 - M_R(3)$$

$$M_R = 127.3 \text{ k}'$$

$$M_L = 53.9 \text{ k}'$$

$$M_R = 127.3$$

$$\frac{M}{L} = 1.92$$

$$D = \frac{28140 - 11520}{28} = 594.3$$

$$\Theta_L = 2285.7$$

$$\Theta_R = 2034.3$$

GET SLOPE DIRECTION BY INSPECTION - LIKE SLOPE ADDS, OPPOSITE SLOPE SUBTRACTS