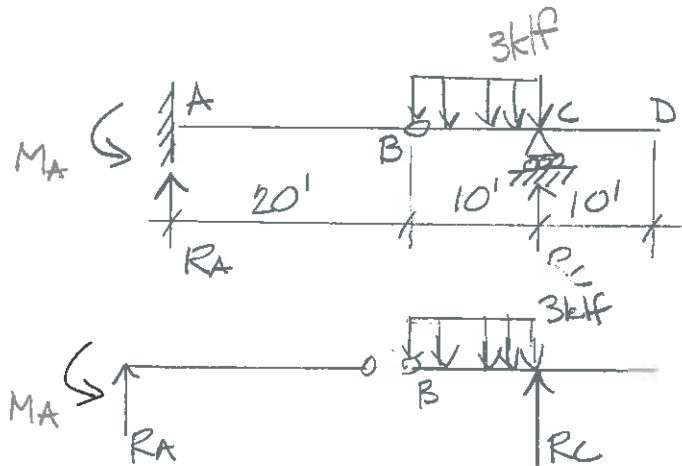


1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3

1.



$$\sum M_B = 0 = -3(10)(5) + R_C(10)$$

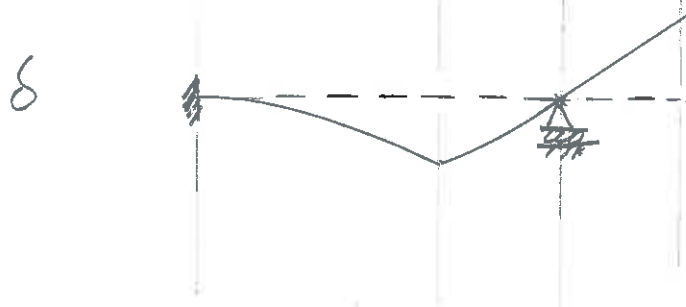
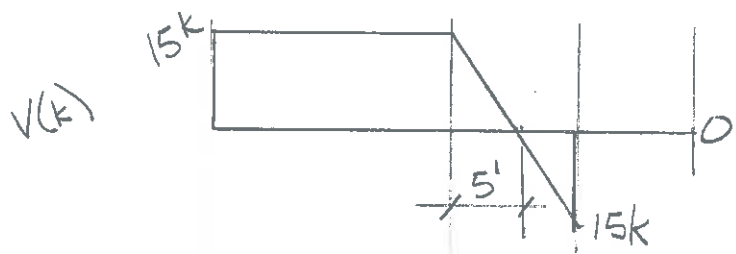
$$R_C = 15k$$

$$\sum F_y = 0 = R_A + R_C - 3(10)$$

$$R_A = 15k$$

$$\sum M_B = 0 = M_A - R_A(20)$$

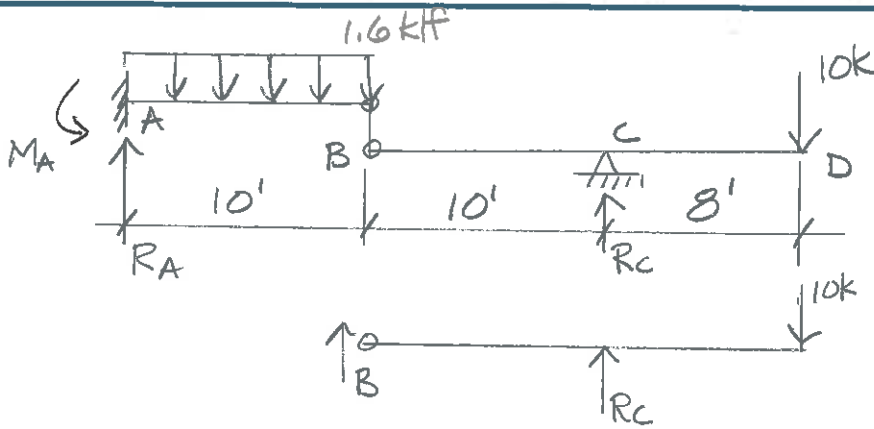
$$M_A = 300k$$



1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3



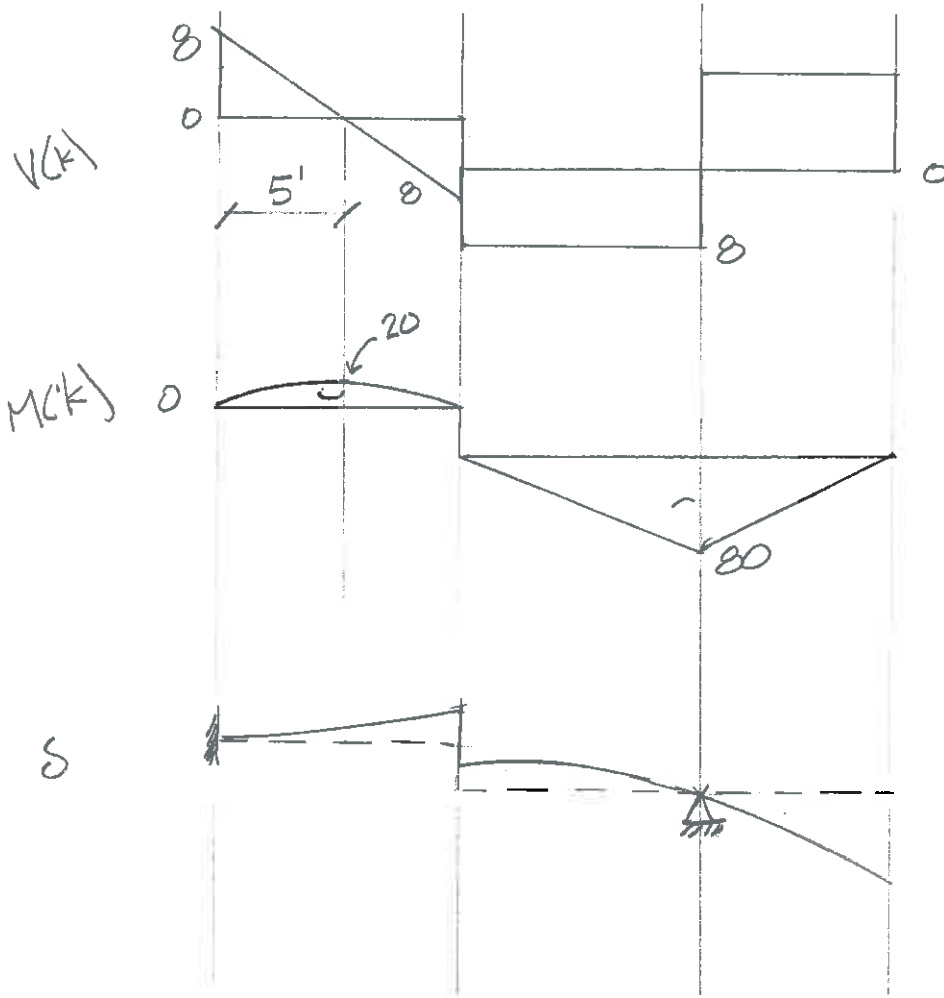
2.



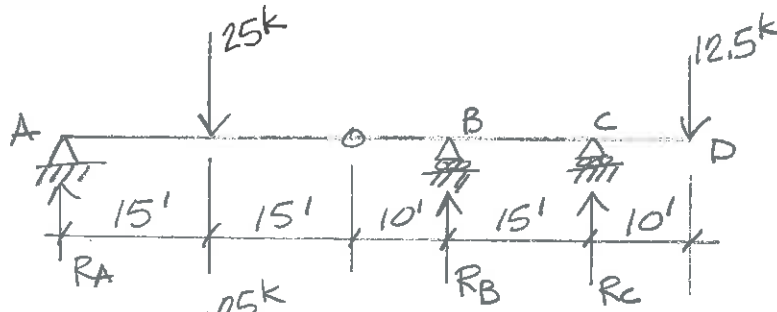
$$\sum M_B = 0 = 10R_C - 10(18) \quad R_C = 18k$$

$$\sum F_y = 0 = R_A + R_C - 1.6(10) - 10 \quad R_A = 8k$$

$$\sum M_A = 0 = M_A + 1.6(10)(5) - R_A(10) \quad M_A = 0$$



3.



$$\sum M_o = 25(15) - R_A(30) \quad R_A = 12.5k$$

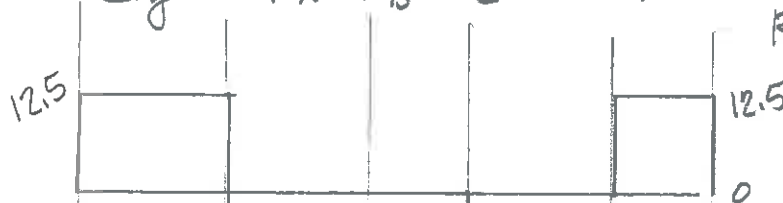
$$\sum M_c = 0 = 25(40) - R_A(55) - R_B(15) - 12.5(10)$$

$$\sum F_y = 0 = R_A + R_B + R_C - 25 - 12.5$$

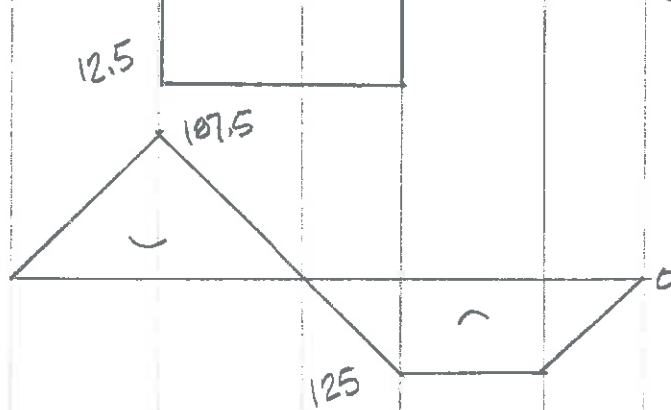
$$R_B = 12.5k$$

$$R_C = 12.5k$$

V(k)

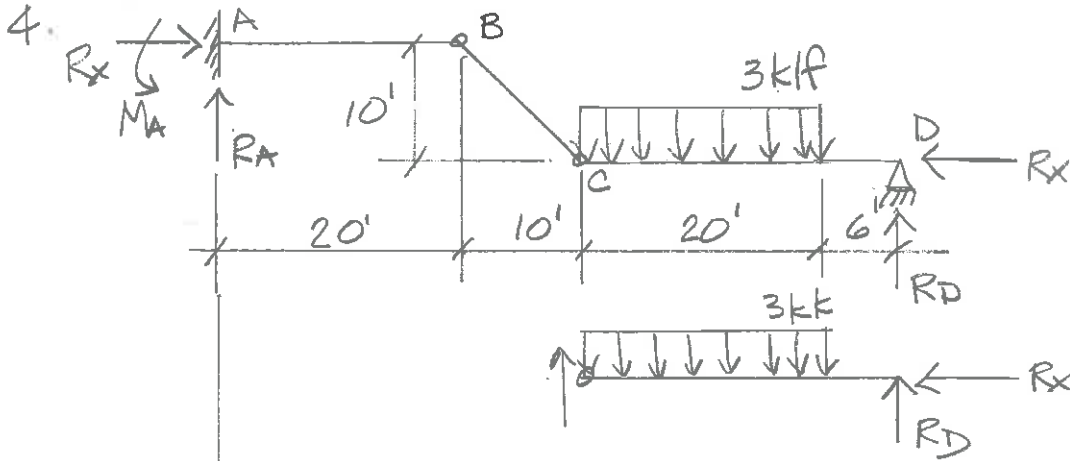


M(k)



δ

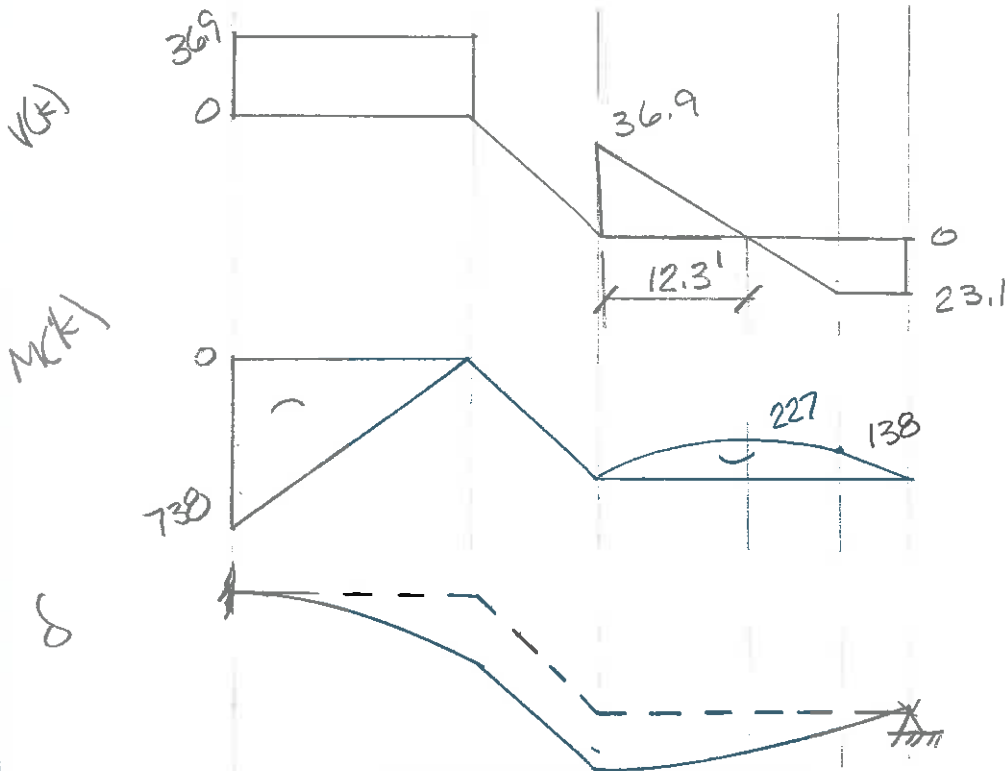




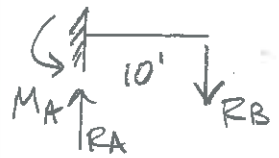
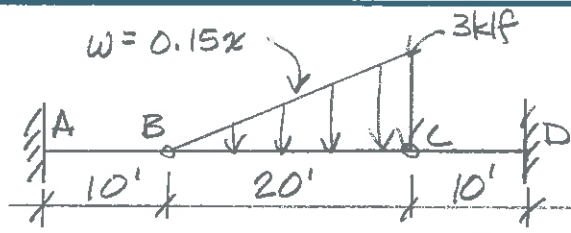
$$\sum M_C = 0 = R_D(20) - 3(20)(10) \quad R_D = 23.1k$$

$$\sum F_y = 0 = R_A + R_D - 3(20) \quad R_A = 36.9k$$

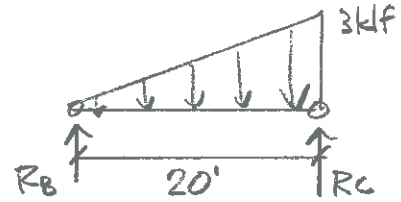
$$\sum M_B = 0 = M_A - R_A(20) \quad M_A = 738k$$



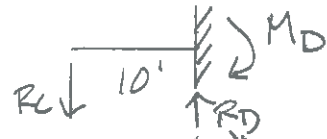
5.



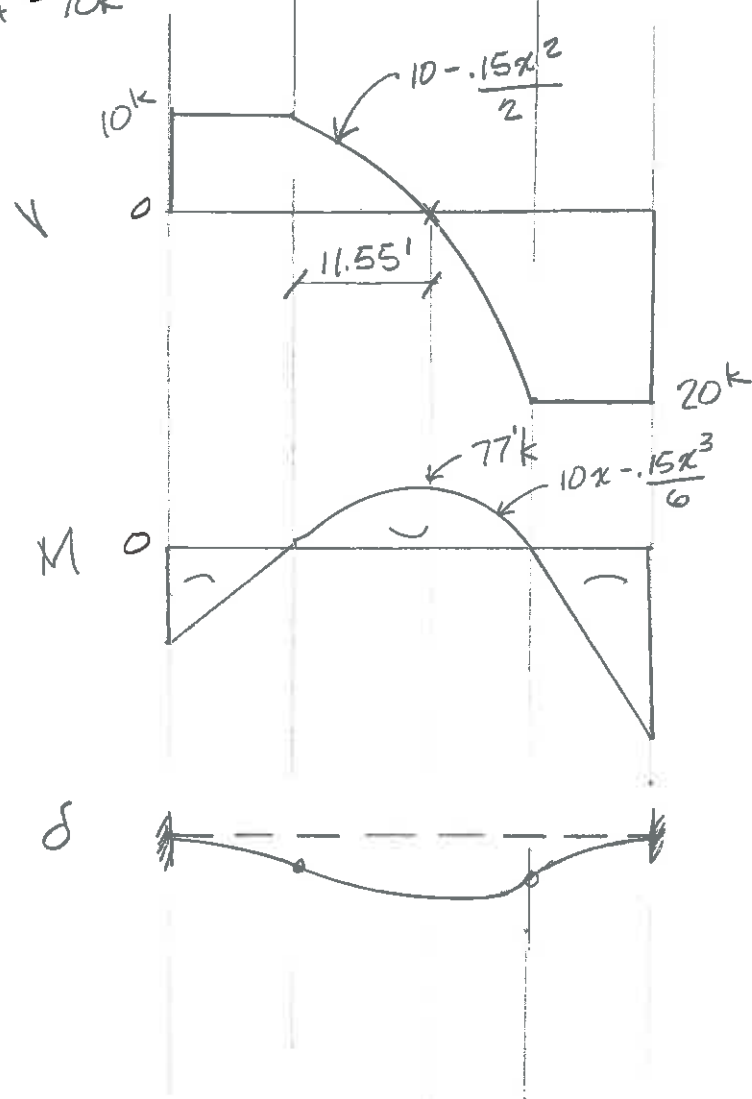
$$\begin{aligned} \sum M_A = 0 &= M_A - 10(0) \\ M_A &= 100 \text{ k} \\ R_A &= 10 \text{ k} \end{aligned}$$



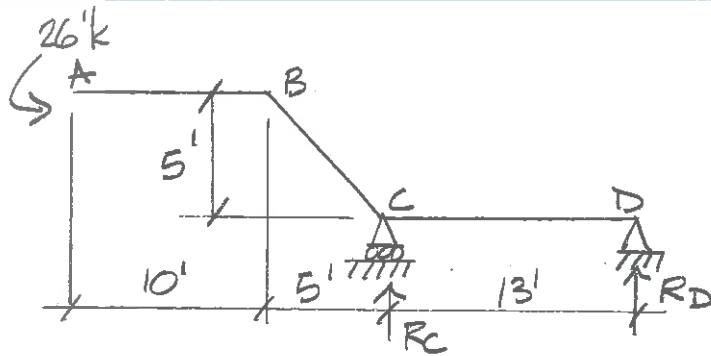
$$\begin{aligned} \sum M_B = 0 &= R_C(20) - 3(20/2)(\frac{2(20)}{3}) \\ R_C &= 20 \text{ k} \\ \sum F_y = 0 &= R_B + R_C - 3(20)(1/2) \\ R_B &= 10 \text{ k} \end{aligned}$$



$$M_D = 200 \text{ k} \quad R_D = 20 \text{ k}$$



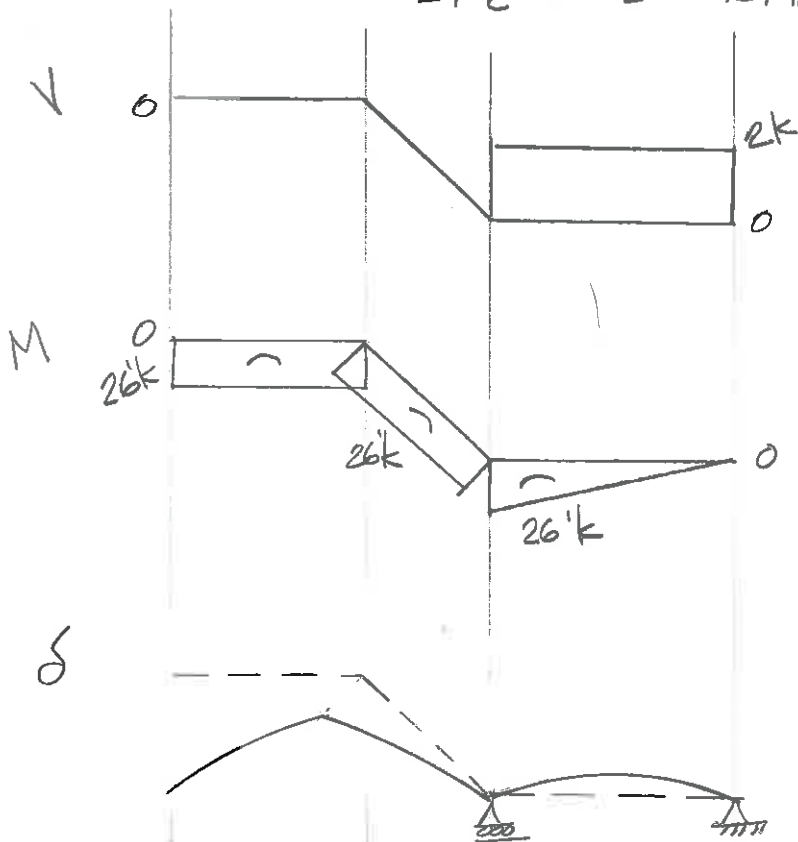
6.



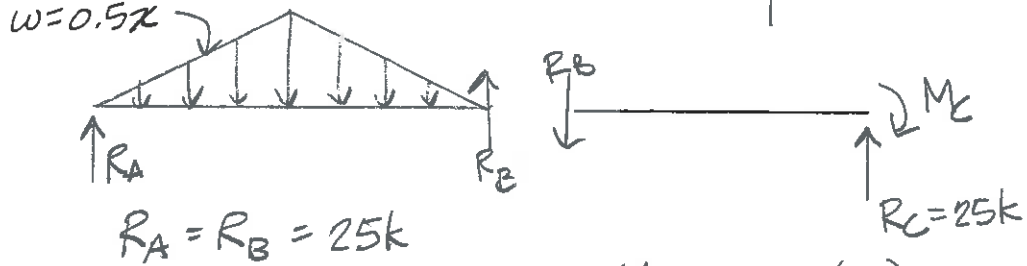
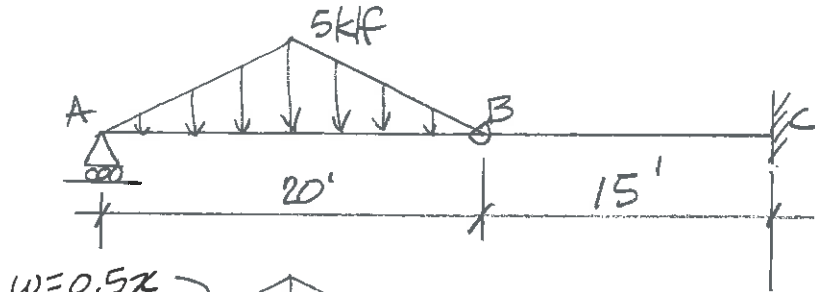
$$\sum M_C = 0 = 26 + 13R_D$$

$$R_D = -2k$$

$$R_C = 2k$$

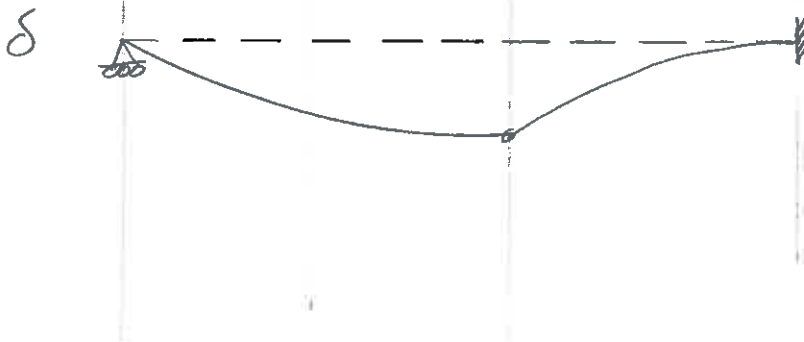
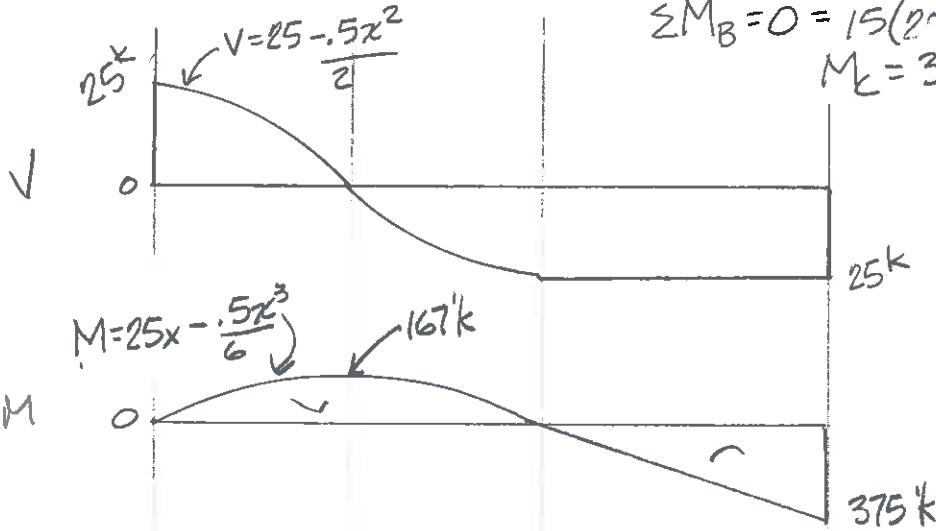


7.

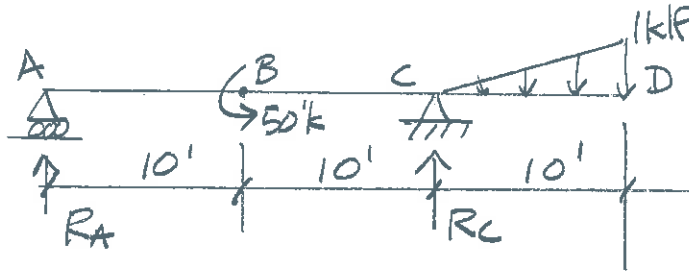


$$\sum M_B = 0 = 15(25) - M_C$$

$$M_C = 375'k$$

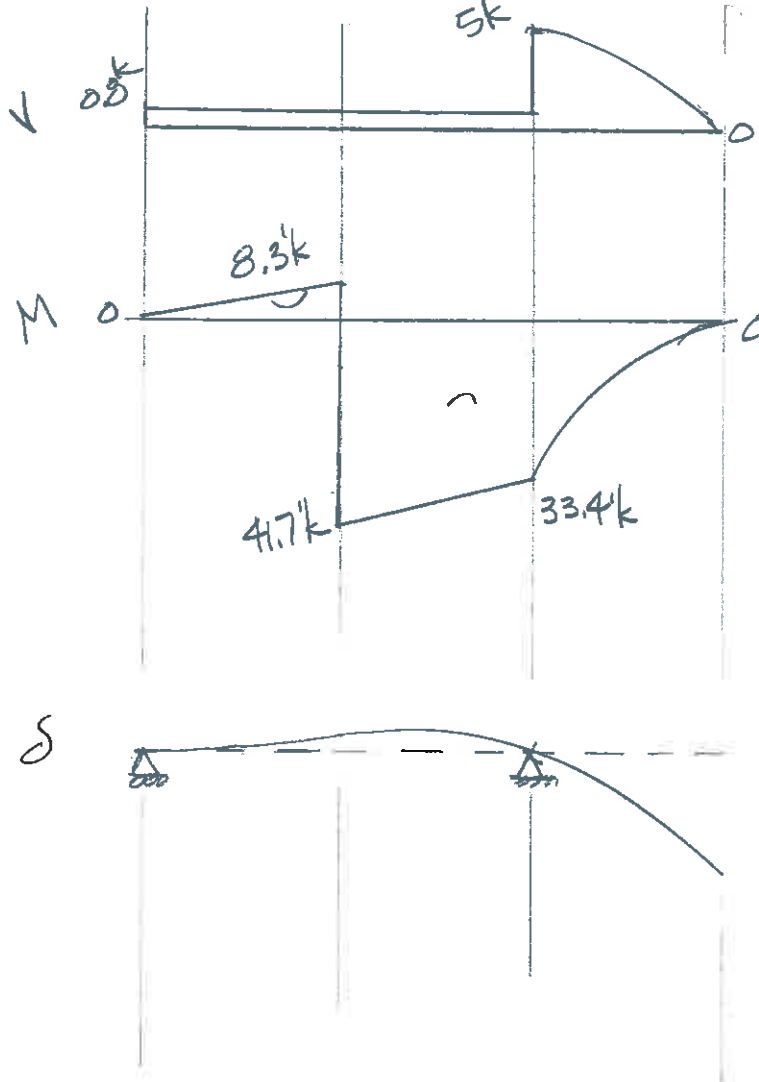


B.

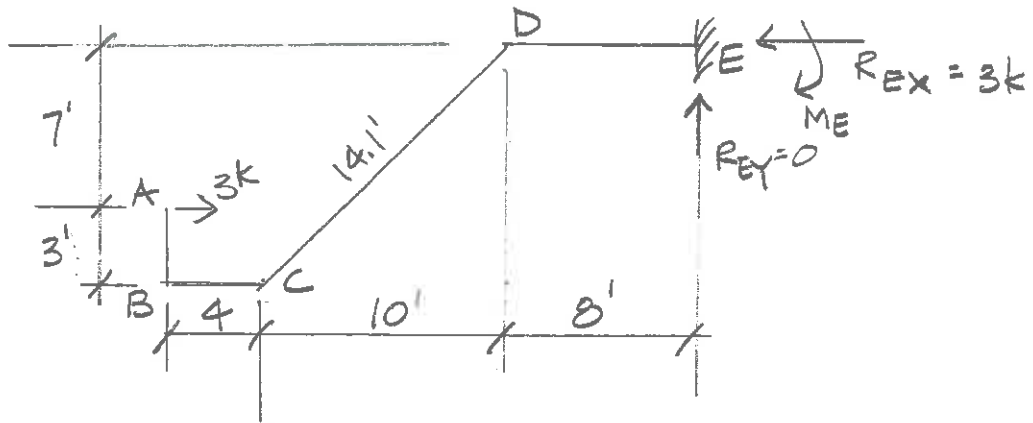


$$\sum M_A = 0 = 50 + R_C(20) - 1\left(\frac{10}{2}\right)\left(20 + \frac{2}{3}(10)\right)$$

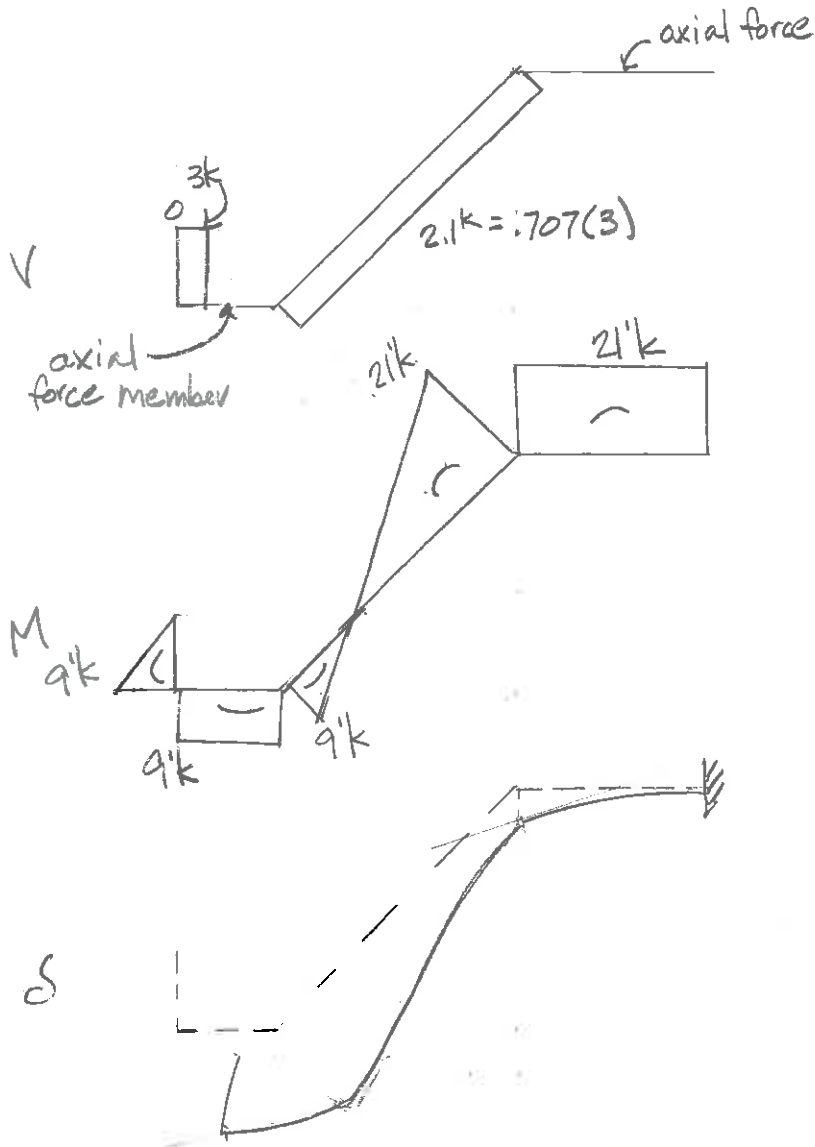
$$R_C = 4.2k \quad R_A = 0.8k$$



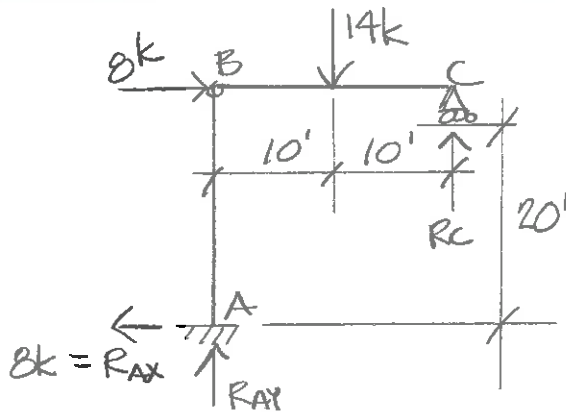
9.



$$\sum M_E = 0 = M_E + 3(7) \quad M_E = 21'k$$



10.



$$\curvearrowright M_A \quad \sum M_B = 0 = -8(20) + M_A \quad M_A = 160'k$$

$$\sum M_A = 0 = 160 - 8(20) + R_c(20) - 14(10) \\ R_c = 7k = R_{Ay}$$

