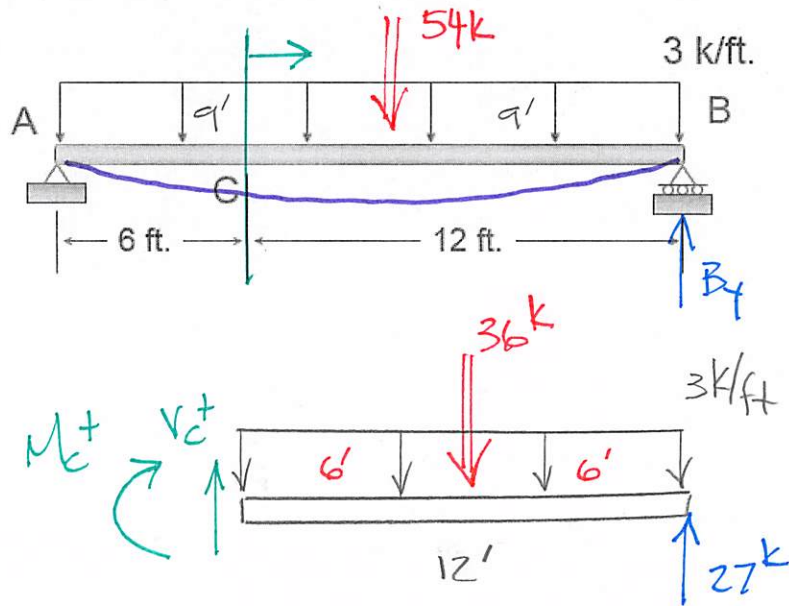


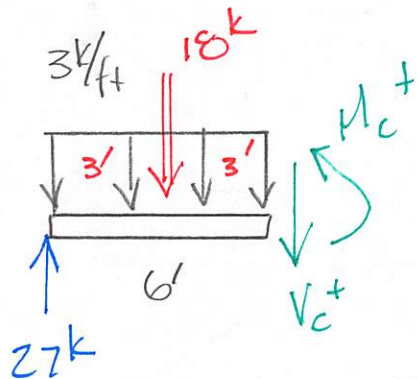
Example 4a-2 - Determine the internal shear and moment at a section passing through point C.



$$\begin{aligned} \sum M_A = 0 &= -54k(9') + B_y(18') & B_y = 27k \\ + \sum F_y = 0 &= A_y + B_y - 54k & A_y = 27k \end{aligned}$$

$$\begin{aligned} \sum M_{cut} = 0 &= -M_c - 36k(6') + 27k(12') \\ M_c &= 108 kft \end{aligned}$$

$$\begin{aligned} + \sum F_y = 0 &= V_c - 36k + 27k \\ V_c &= 9k \end{aligned}$$



$$\begin{aligned} \sum M_{cut} = 0 &= M_c + 18k(3') - 27k(6') \\ M_c &= 108 kft \end{aligned}$$

$$\begin{aligned} + \sum F_y = 0 &= -V_c - 18k + 27k \\ V_c &= 9k \end{aligned}$$