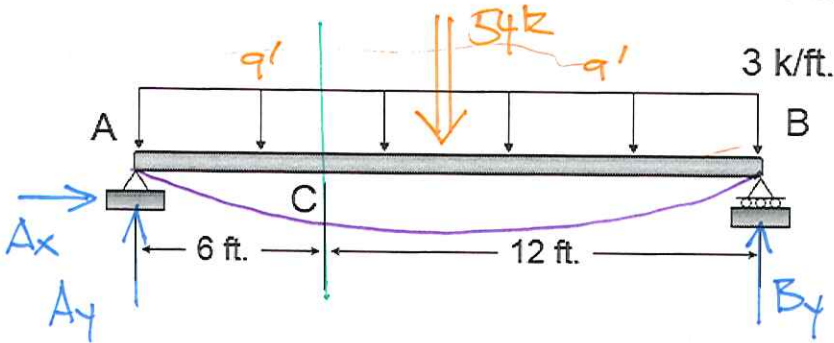
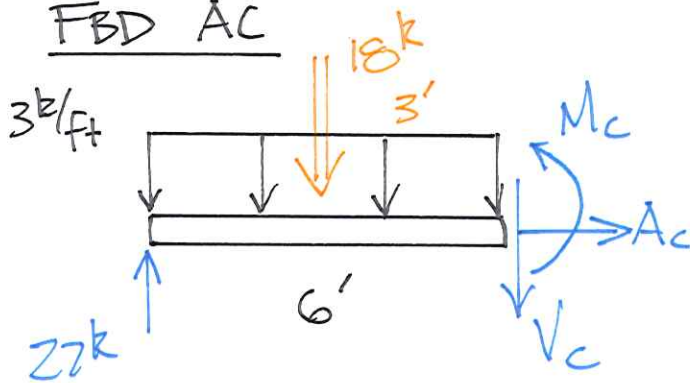


Example 4a-2 - Determine the internal shear and moment in at a section passing through point C.



$$\begin{aligned} \sum M_B = 0 &= 54^k(9') - A_y(18') \quad \underline{\underline{A_y = 27^k}} \\ \sum F_x = 0 &= A_x \end{aligned}$$

FBD AC



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

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

$$\sum F_x = 0 = A_c$$