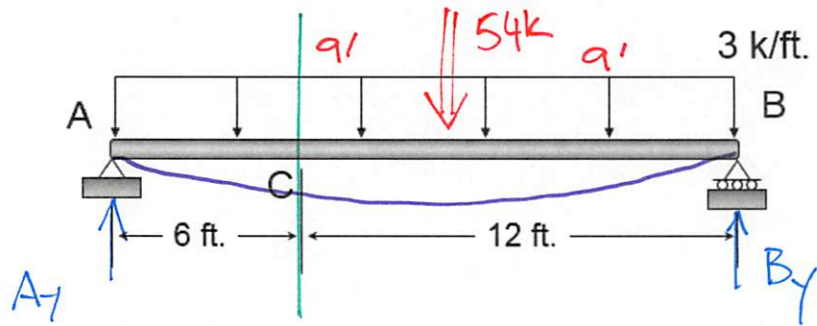


Example 4a-2 - Determine the internal shear and moment at a section passing through point C.

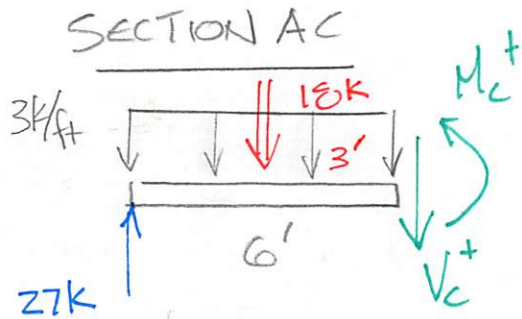


$$\sum M_A = 0 = -54k(9') + B_y(18')$$

$$B_y = 27k$$

$$\sum F_y = 0 = A_y + B_y - 54k$$

$$A_y = 27k$$

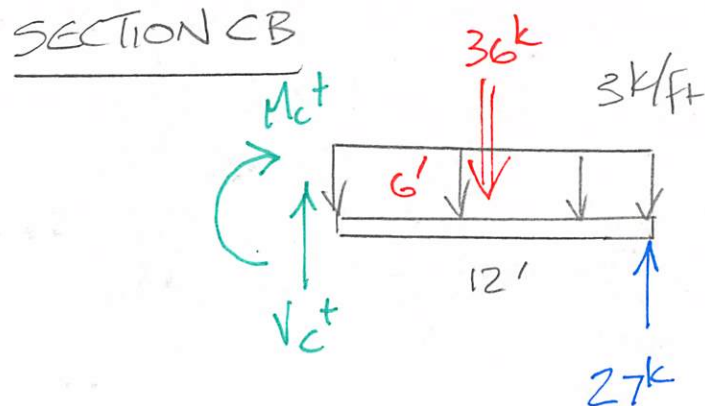


$$\sum M_{cut} = 0 = M_c + 18k(3') - 27k(6')$$

$$M_c = 108 kft$$

$$\sum F_y = 0 = -V_c - 18k + 27k$$

$$V_c = 9k$$



$$\sum M_{cut} = 0 = -M_c - 36k(6') + 27k(12')$$

$$M_c = 108 kft$$

$$\sum F_y = 0 = V_c - 36k + 27k$$

$$V_c = 9k$$