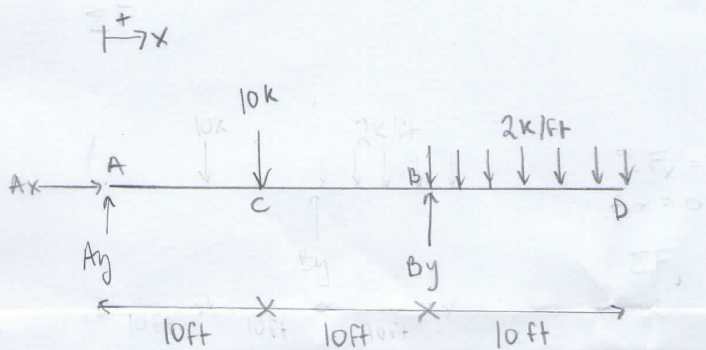
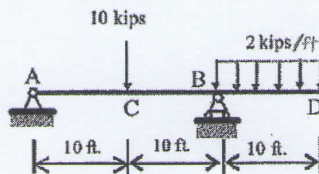


In-Class Problem #3

Draw the shear and moment diagrams for the beam shown below. Make sure to label important values and their locations on the diagrams.



$$\sum F_x = 0$$

$$A_x = 0$$

$$\sum M_A = 0$$

$$-10k(10') + B_y(20') - (2k/ft)(10')(25') = 0$$

$$B_y = 30k$$

$$\sum F_y = 0$$

$$A_y - 10k + B_y - (2k/ft)(10') = 0$$

$$A_y = 0$$

