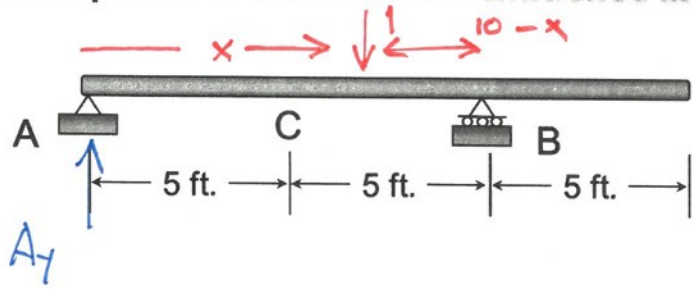


Example 6a-3: Construct the ***influence line*** for the moment at C

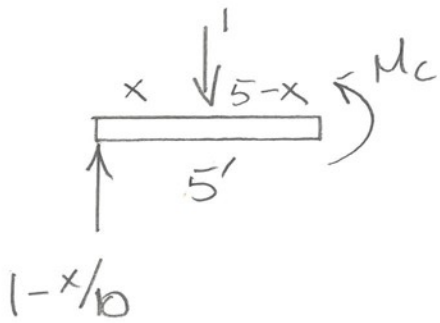


$$\sum M_B = 0 = 1(10-x) - A_y(10) \quad \underline{A_y = \frac{10-x}{10} = 1 - \frac{x}{10}}$$

$$0 \leq x \leq 5$$

$$\sum M_{cut} = 0 = M_c + 1(5-x) - (1 - \frac{x}{10})5' \quad \underline{M_c = \frac{x}{2} \quad 0 \leq x \leq 5}$$

~~$5 - x - 5 + \frac{x}{2}$~~



$$5 \leq x \leq 15$$

$$\sum M_{cut} = 0 = M_c - (1 - \frac{x}{10})5' \quad \underline{M_c = 5 - \frac{x}{2} \quad 5 \leq x \leq 15}$$

