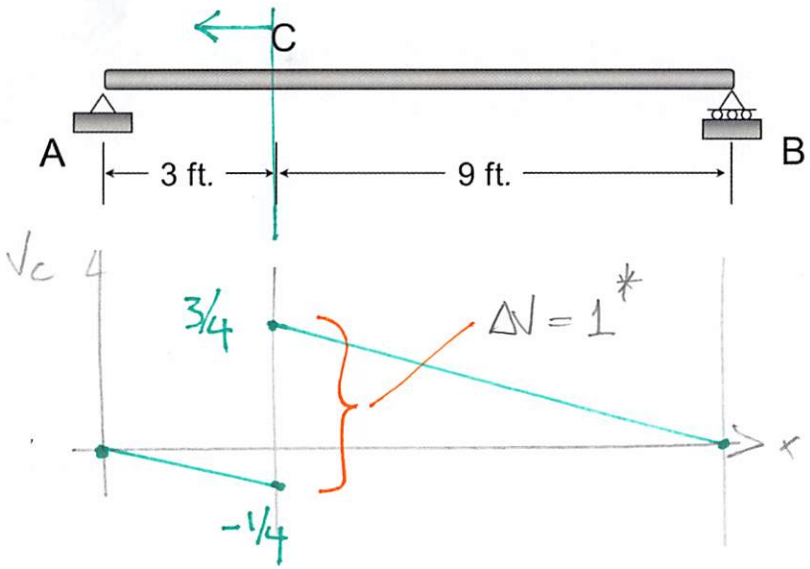
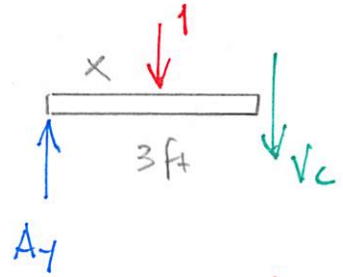
Example 6a-2: Construct the ***influence line*** for the shear at C

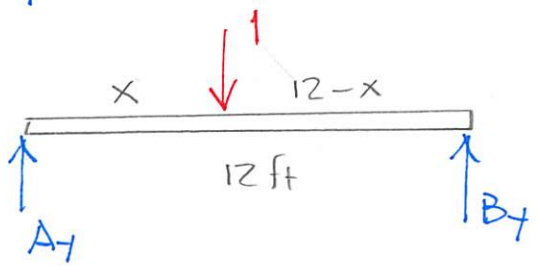


$0 \le x \le 3$ ft — UNIT LOAD LOCATION

(I)



(II)



(II) $\circlearrowleft \sum M_B = 0 = 1(12-x) - A_y(12\,ft)$

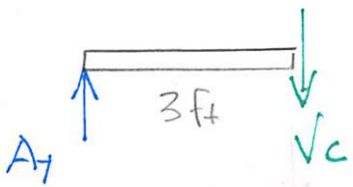
$$A_y = \frac{12-x}{12} = 1 - \frac{x}{12}$$

(I) $\uparrow \sum F_y = 0 = A_y - V_C - 1$

$$V_C = -\frac{x}{12}$$

$3 \le x \le 12$ ft

$t\uparrow \sum F_y = 0 = A_y - V_C$



$$V_C = 1 - \frac{x}{12}$$