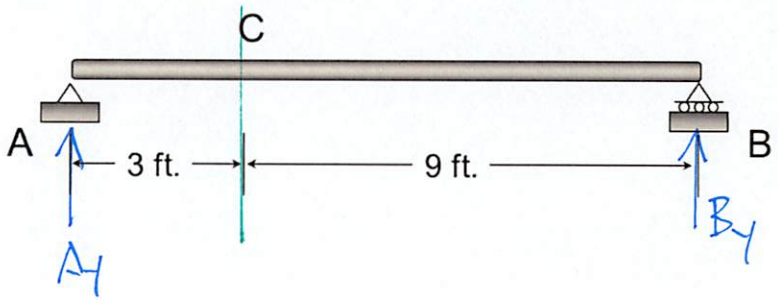
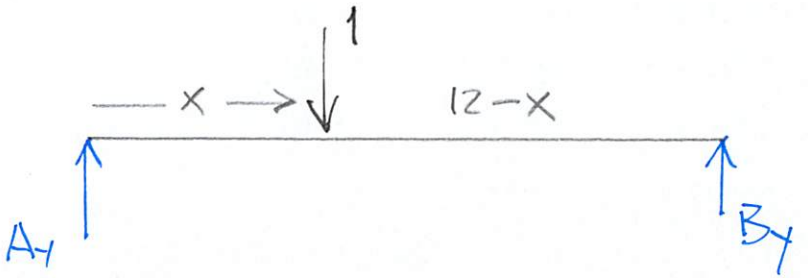
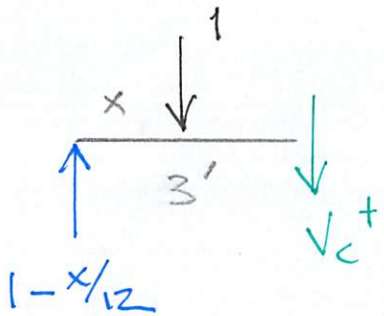
Example 6a-2: Construct the ***influence line*** for the shear at C





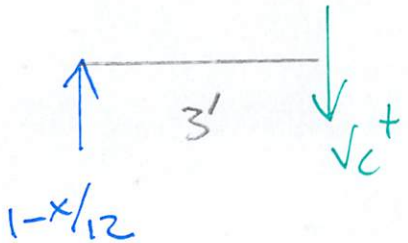
$\circlearrowleft + \sum M_B = 0 = 1(12-x) - A_y(12') \qquad A_y = 1 - \frac{x}{12}$



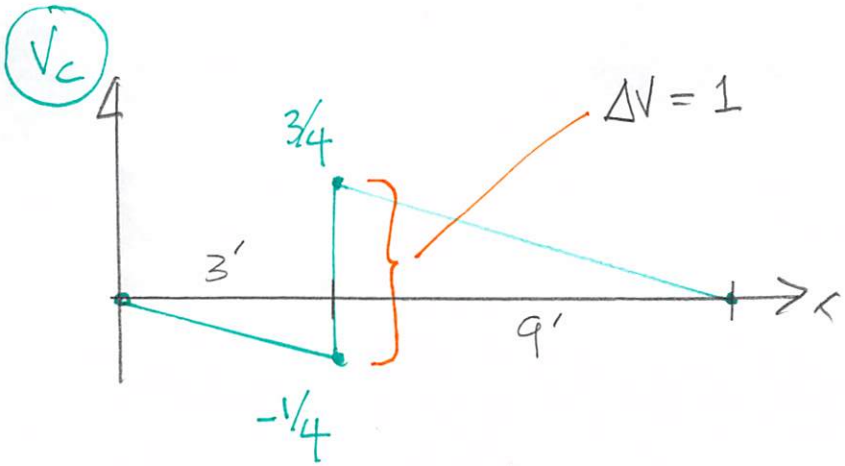
$0 \le x \le 3$

$+\uparrow \sum F_y = 0 = -V_c - 1 + (1 - x/12) \qquad V_c = -x/12 \qquad 0 \le x \le 3$

$3 \le x \le 12$



$+\uparrow \sum F_y = 0 = -V_c + (1 - x/12) \qquad V_c = 1 - x/12 \qquad 3 \le x \le 12$



$$V_c = \frac{3}{4}(1k) = 750\,lb.$$