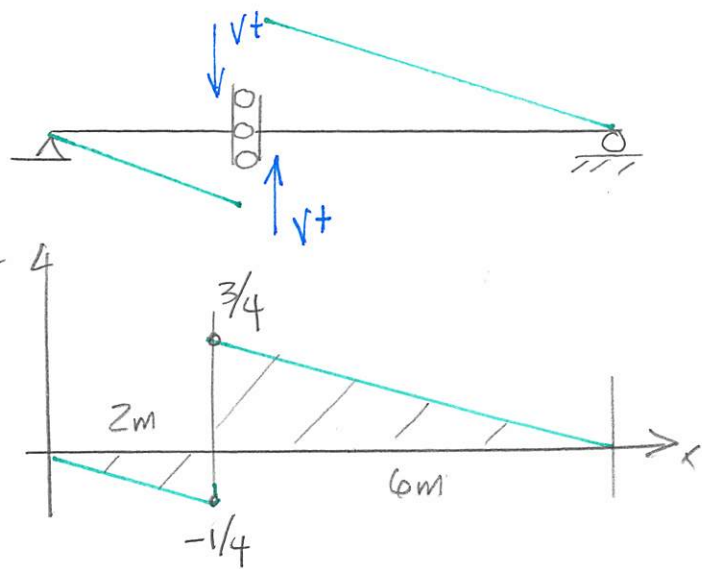
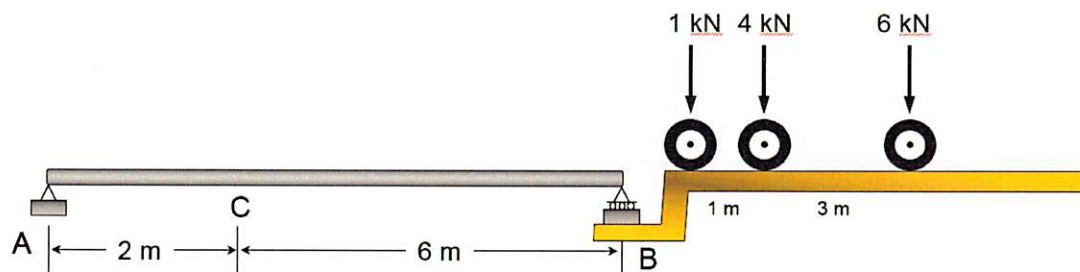
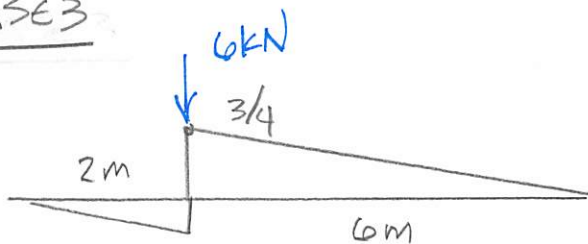


**Example 6c-2:** Determine the maximum shear created at point C in the beam below due to the wheel loads of a moving truck traveling from right to left.

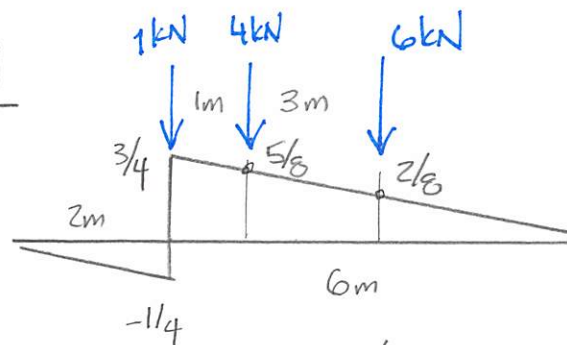


CASE 3



$$V_{C3} = 6 \text{ kN} \left( \frac{3}{4} \right) = 4.5 \text{ kN}$$

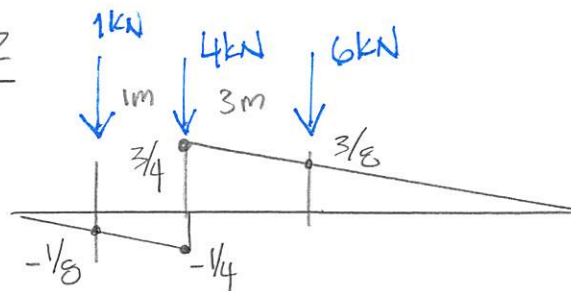
CASE 1



$$\text{SLOPE} = \frac{3/4}{6\text{m}} = \frac{1}{8}$$

$$V_{C1} = 1 \text{ kN} \left( \frac{3}{4} \right) + 4 \text{ kN} \left( \frac{5}{8} \right) + 6 \text{ kN} \left( \frac{2}{8} \right) = 4.75 \text{ kN}$$

CASE 2



$$V_{C2} = 1 \text{ kN} \left( -\frac{1}{8} \right) + 4 \text{ kN} \left( \frac{3}{4} \right) + 6 \text{ kN} \left( \frac{3}{8} \right) = 5.125 \text{ kN}$$

$$\underline{\underline{V_{C\text{MAX}} = 5.125 \text{ kN}}}$$