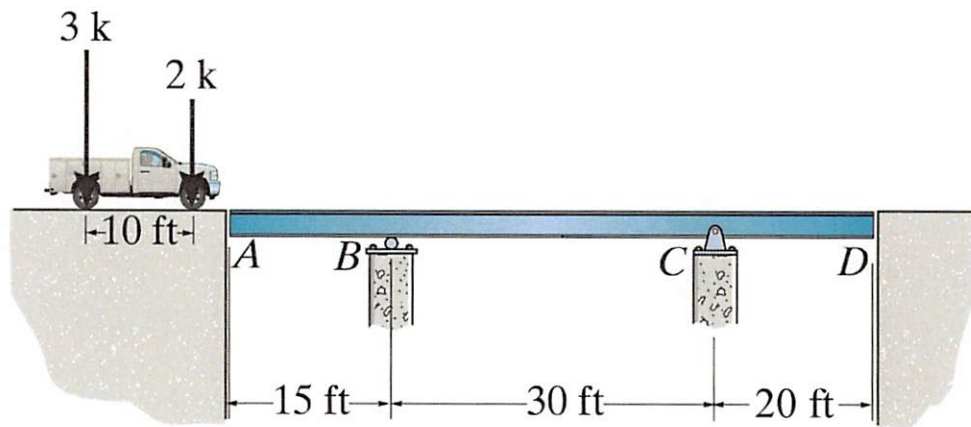
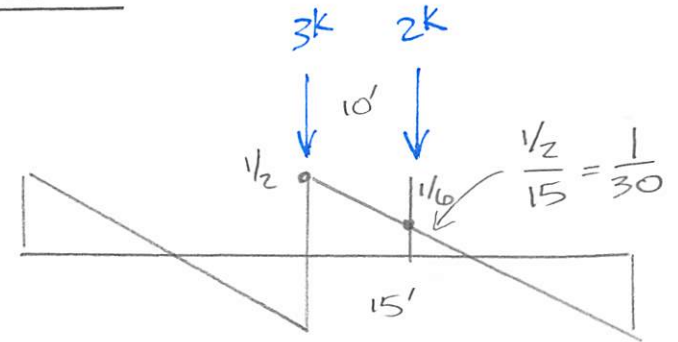


Example 6c-4: Determine the maximum shear created at mid-point BC span in the beam below due to the wheel loads of a moving truck.



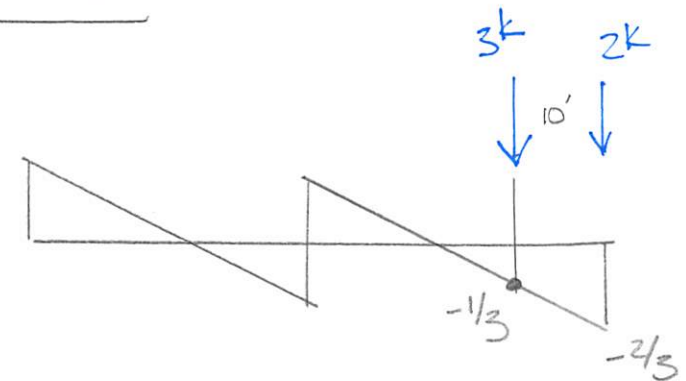
POSITIVE SHEAR

CASE 1

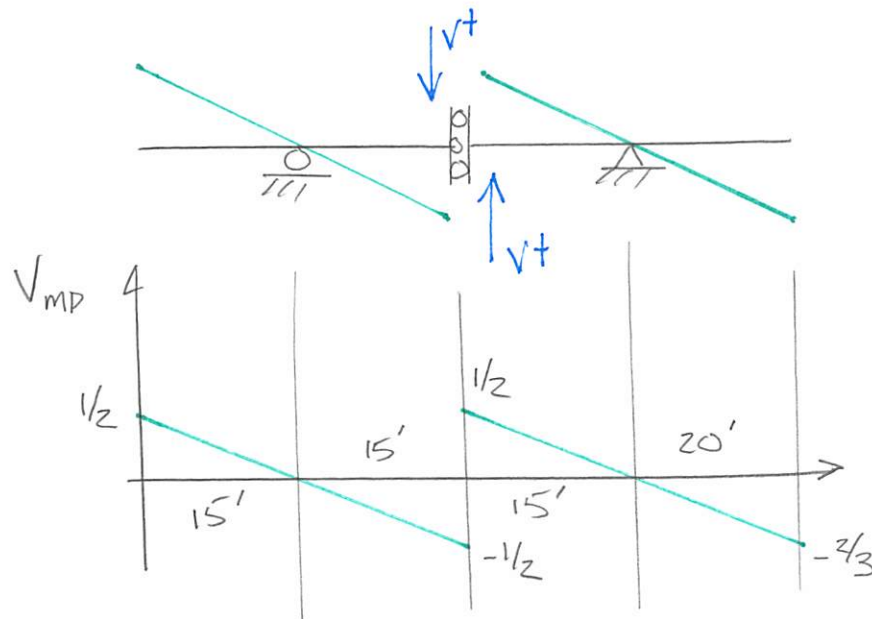


$$V_{MP} = 3k\left(\frac{1}{2}\right) + 2k\left(\frac{1}{6}\right) = \underline{1.83k}$$

NEGATIVE SHEAR



$$V_{MP} = 2k\left(-\frac{2}{3}\right) + 3k\left(-\frac{1}{3}\right) = \underline{-2.33k}$$



$$\frac{1/2}{15} = \frac{?}{20} \quad ? =$$

$$\underline{\underline{V_{MP_{MAX}} = -2.33k}}$$