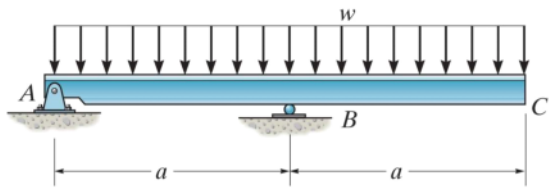
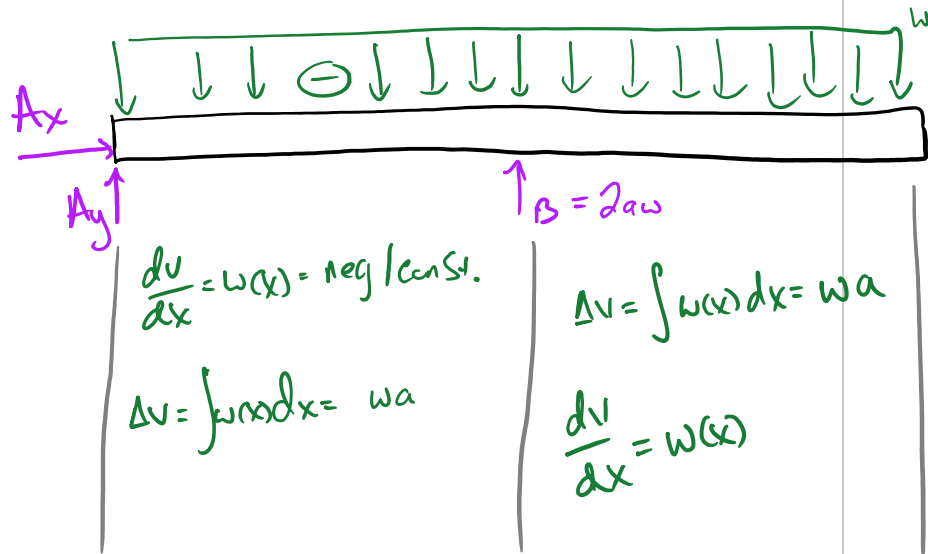


### To do ...

- HW 17 ME due **Thurs**
- **Piazza poll** for matlab session
- **Study Area** in MasteringEng for practice
- **Quiz 5** – next week!
- Last TAM 210 class – Fri Nov 3<sup>rd</sup>
  
- TAM 210 final
  - CBTF – 1hr 50 mins
  - Thurs – Sunday // Nov 9<sup>th</sup> – Nov 12<sup>th</sup>
- TAM 211 final
  - CBTF
  - Dec 14<sup>th</sup> – Dec 20<sup>th</sup> (tentative)



Draw the shear and moment diagrams for the beam.



$$\frac{dV}{dx} = w(x) = \text{neg / const.}$$

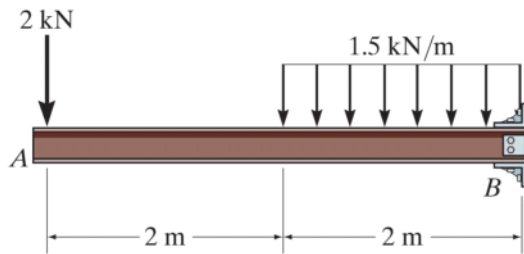
$$\Delta V = \int w(x) dx = wa$$

$$\Delta V = \int w(x) dx = wa$$

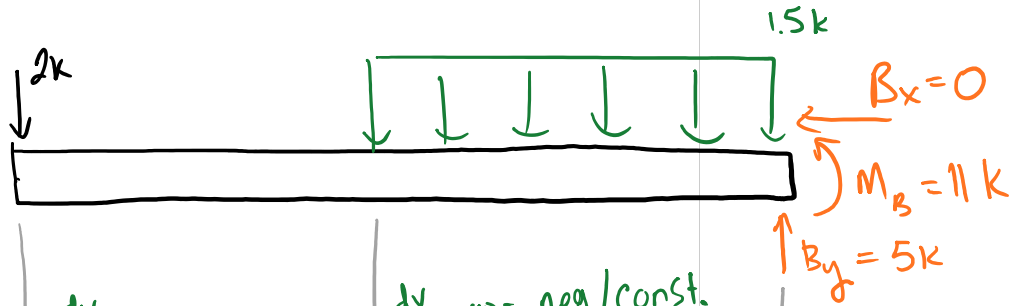
$$\frac{dV}{dx} = w(x)$$



$$-\frac{\omega a^2}{2}$$



Draw the shear and moment diagrams for the cantilever beam.

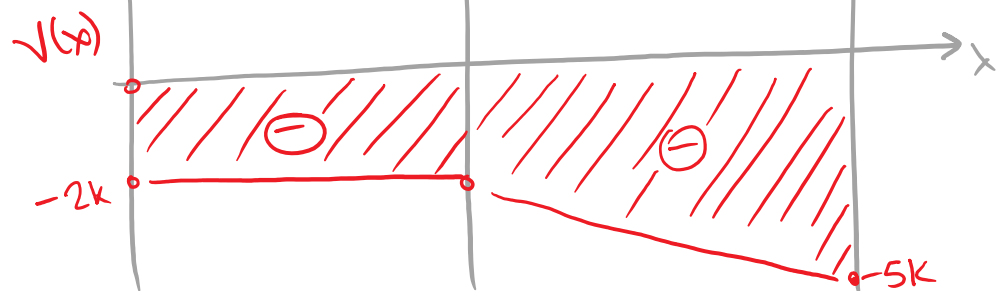


$$\frac{dv}{dx} = w(x) = 0$$

$$\Delta v = \int w(x) dx = 0$$

$$\frac{dv}{dx} = w(x) = \text{neg/const.}$$

$$\Delta v = \int w(x) dx = (1.5 \text{ k})(2) = 3 \text{ k}$$



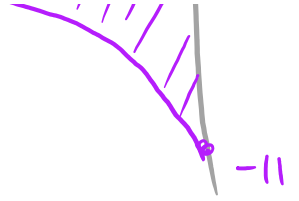
$$\frac{dM}{dx} = v = \text{neg/const.}$$

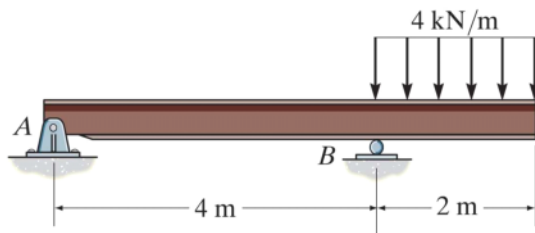
$$\Delta M = \int v(x) dx = (-2 \text{ k})(2) = -4 \text{ k}$$

$$\frac{dM}{dx} = v = \text{neg/more neg.}$$

$$\Delta M = \int v(x) dx = -7$$







Draw the shear and moment diagrams for the overhang beam.

