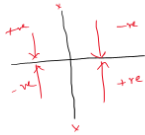


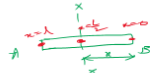
Sign convention for shear force



Bending moment:

CW \rightarrow -ve

CCW \rightarrow +ve



$$\sum F_{x,x} = -w$$

$$R_V = -w$$

$$R_H = 0$$

$$M = -w \times l$$

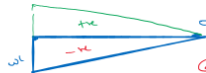
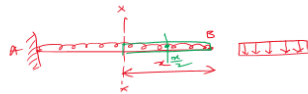
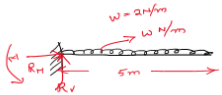
$$@ x=0 \quad SF_B = w$$

$$x=l \quad SF_A = -w$$

$$BM_{x,x} = -w \times x$$

$$@ x=0 \quad BM_B = 0$$

$$x=l \quad BM_A = -wL$$



$$\sum F_{x,x} = -w \times x$$

$$@ x=0 \quad SF_B = w \times 0 = 0$$

$$SF_A = w \times l = -wL$$

$$BM_{x,x} = -(w \times x) \frac{x}{2} = -\frac{w x^2}{2}$$

$$@ x=0 \quad BM_B = 0$$

$$x=l \quad BM_A = -\frac{wL^2}{2}$$

