

Equilibrium state = remains at rest

Statics = remains at rest

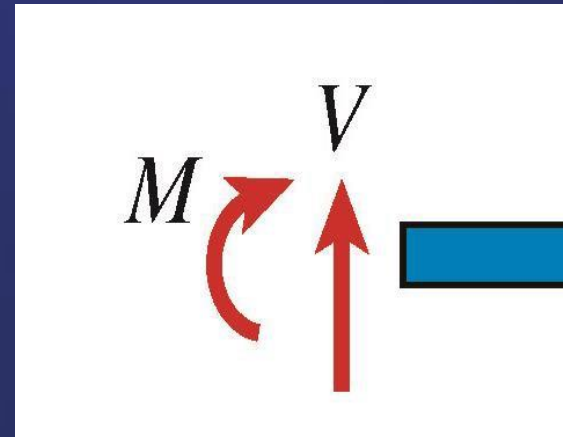
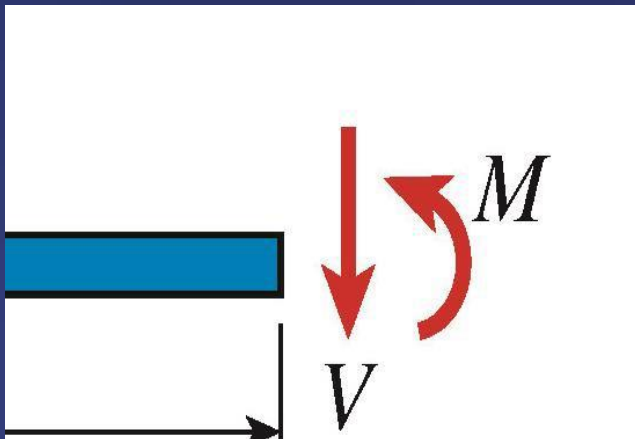
NO movement, STABLE

Resultant forces = ZERO

$$\sum \mathbf{F} = \mathbf{0}$$

$$\sum \mathbf{M} = \mathbf{0}$$

Positive Signs Convention

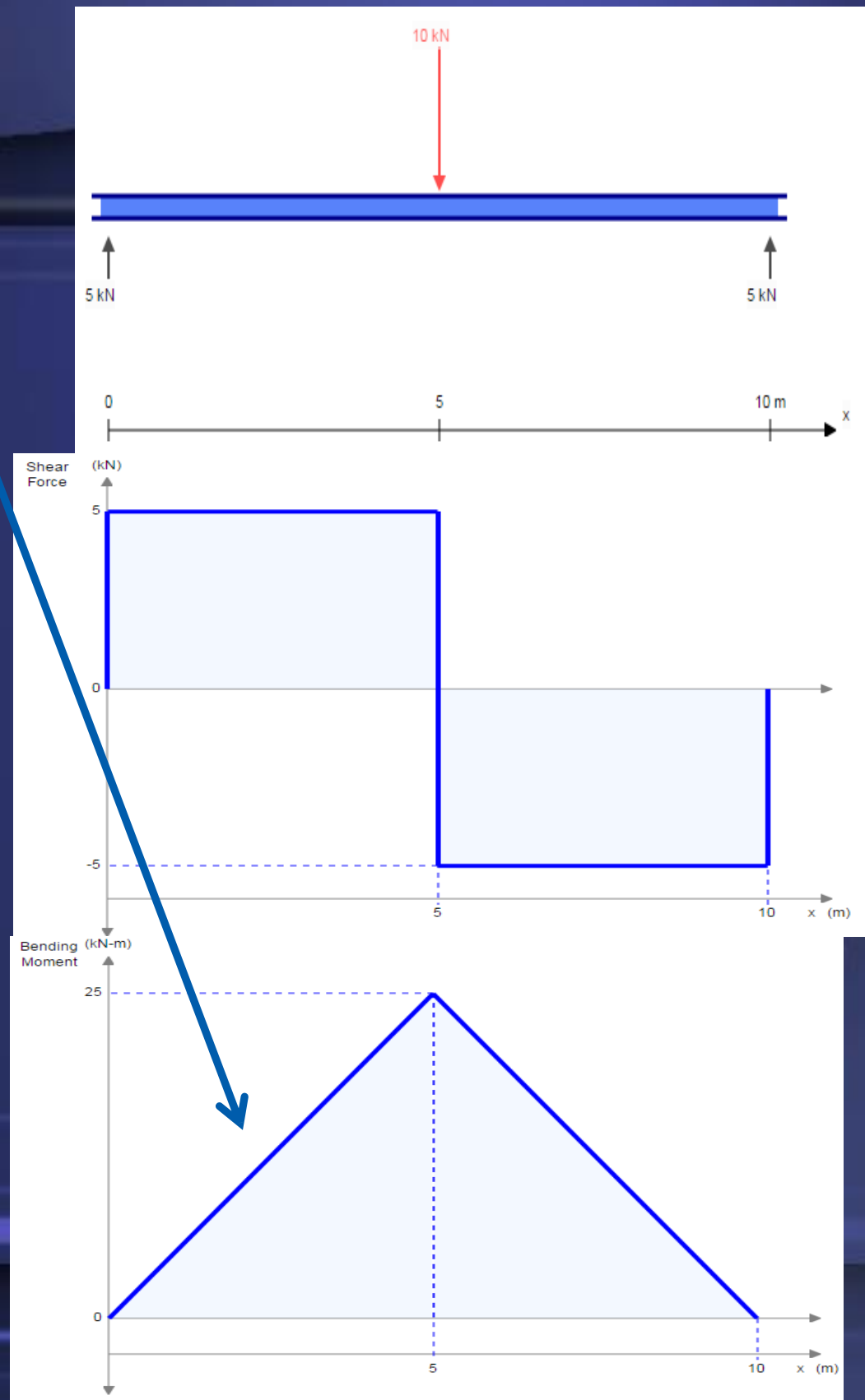


Point Load \rightarrow Straight line Moment Diagram (Like your Lab 2)

SHEAR
diagram



MOMENT
diagram

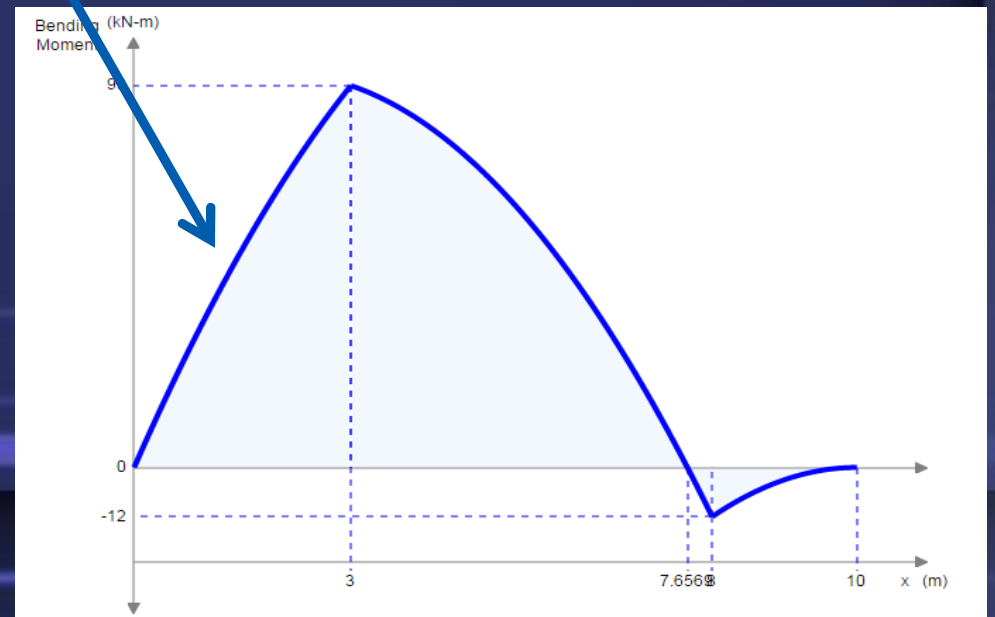
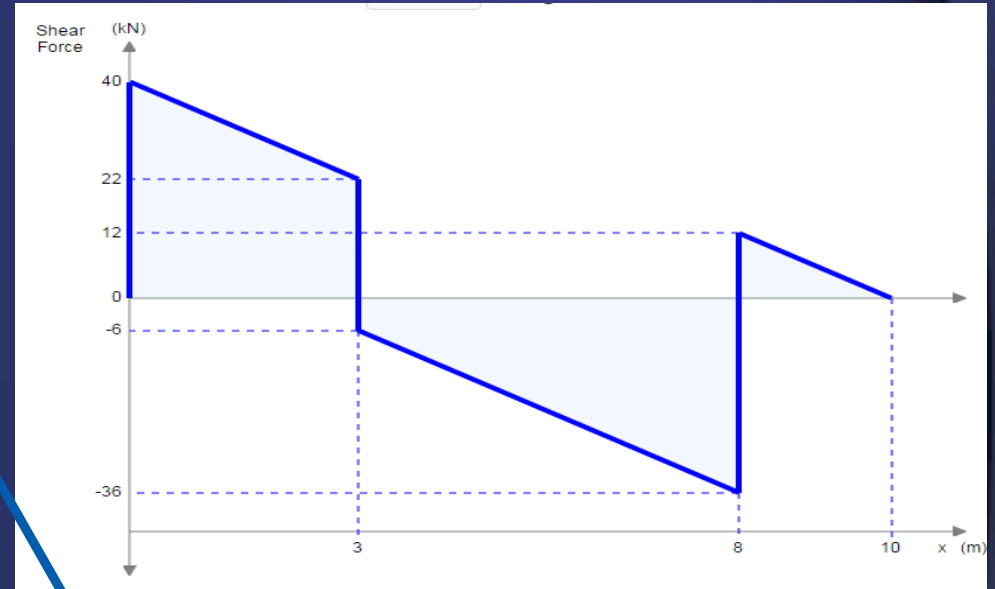
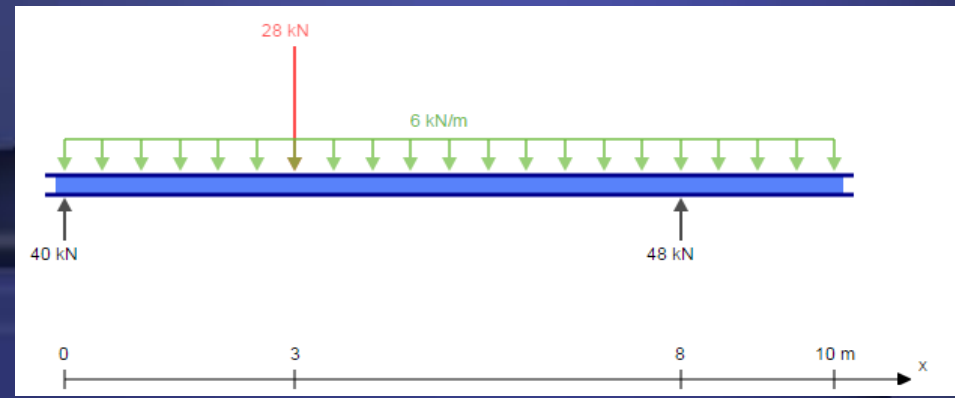


Other loading → Parabolic curve
Moment Diagram

SHEAR
diagram



MOMENT
diagram



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