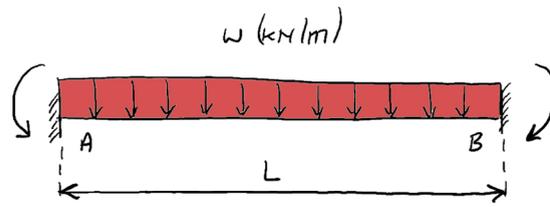


# Fixed-End Moments

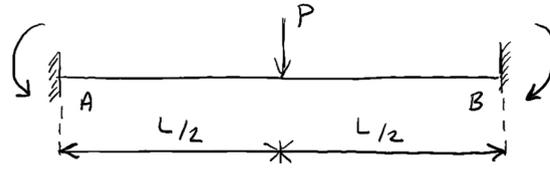
## Fixed-Fixed

$$M_A = -\frac{wL^2}{12}$$



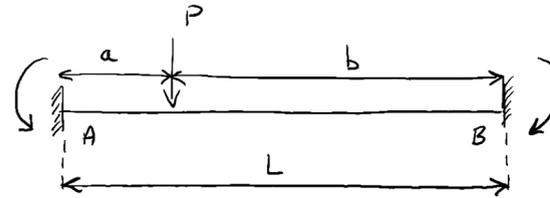
$$M_B = \frac{wL^2}{12}$$

$$M_A = -\frac{PL}{8}$$



$$M_B = \frac{PL}{8}$$

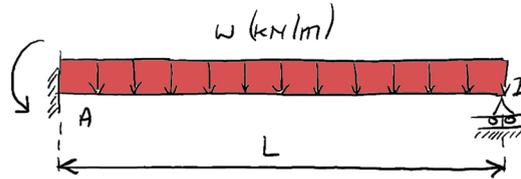
$$M_A = -\frac{Pab^2}{L^2}$$



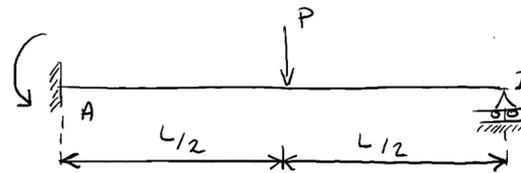
$$M_B = \frac{Pa^2b}{L^2}$$

## Fixed-Pinned

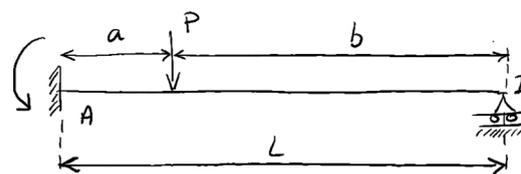
$$M_A = -\frac{wL^2}{8}$$



$$M_A = -\frac{3PL}{16}$$

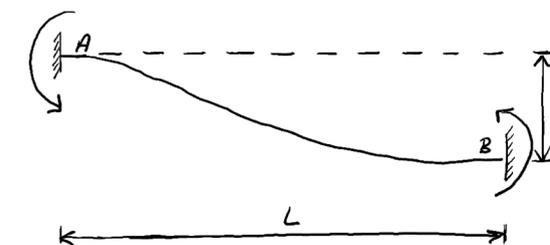


$$M_A = -\frac{Pab(2L - a)}{2L^2}$$



## Sway

$$M_A = -\frac{6EI\Delta}{L^2}$$



$$M_B = -\frac{6EI\Delta}{L^2}$$

$$M_A = -\frac{3EI\Delta}{L^2}$$

