弾性荷重法
による検算

$$V_A + V_B = \frac{Pl^2}{3} - \frac{Pl^2}{6} = \frac{Pl^2}{6}$$
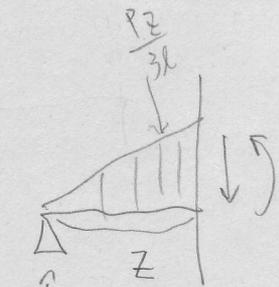
$$3l\,V_A - \frac{Pl^2}{3}\cdot 2l + \frac{Pl^2}{6}\cdot\frac{l}{3} = 0$$

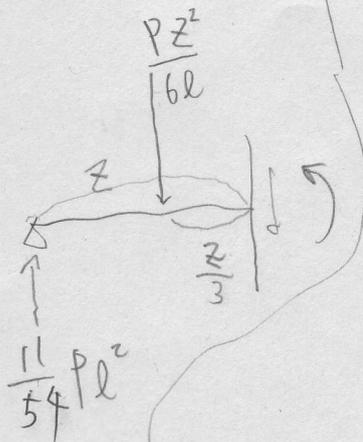$$3V_A = Pl^2\left(\frac{2}{3} - \frac{1}{18}\right) = \frac{12-1}{18}\,Pl^2$$

$$V_A = \frac{11}{54}Pl^2$$

$$l : \frac{P}{3} = z : 0 \qquad EIM = \frac{11}{54}Pl^2z - \frac{Pz^3}{18}$$

$$0 = \frac{Pz}{3l} \qquad\qquad = \frac{P}{54}(-3z^3 + 11l^2z)$$

$$N(l) = \frac{Pl^3(11-3)}{54EI}$$

$$= \frac{4Pl^3}{27EI}$$