



AB :  $H(x) = -qz^2$

$H'' = -H'(z) = \frac{EI}{qz^2}$

$H' = qz^3 + C_1$

$H = \frac{qz^4}{4} + C_1z + C_2$

BC :  $H(z) = -qc(z-e) - \frac{qz^2}{2}$

$= -qc^2 + \frac{qz^2}{2}$

$H'' = -H'(z) = \frac{EI}{qc} - \frac{qc}{EI}$

$H' = qc^2z - \frac{qc}{2EI}z + C_3$

$H = qc^2z^2 - \frac{qc}{4EI}z^2 + C_3z + C_4$

für  $z = l$

①  $H'_B = H'_D$

②  $H_B = H_D$

$\frac{d^2}{dz^2} \Big|_B - \frac{d^2}{dz^2} \Big|_D = \phi'_B = \phi'_D$

①  $\frac{qc}{4EI} + C_1c + C_2 = \frac{qc}{4EI} - \frac{qc}{4EI} + C_3c + C_4$

②  $\frac{qc}{2EI} + C_1 = \frac{qc}{2EI} - \frac{qc}{2EI} + C_3 + C_4$