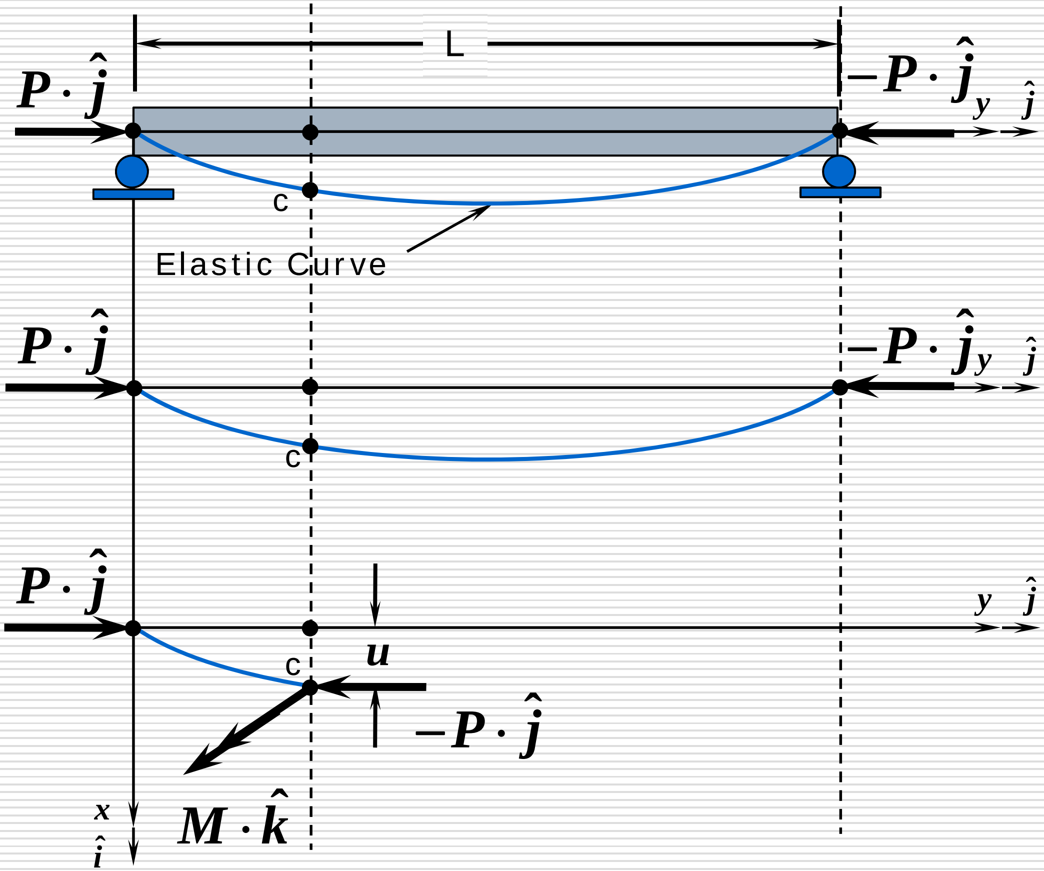
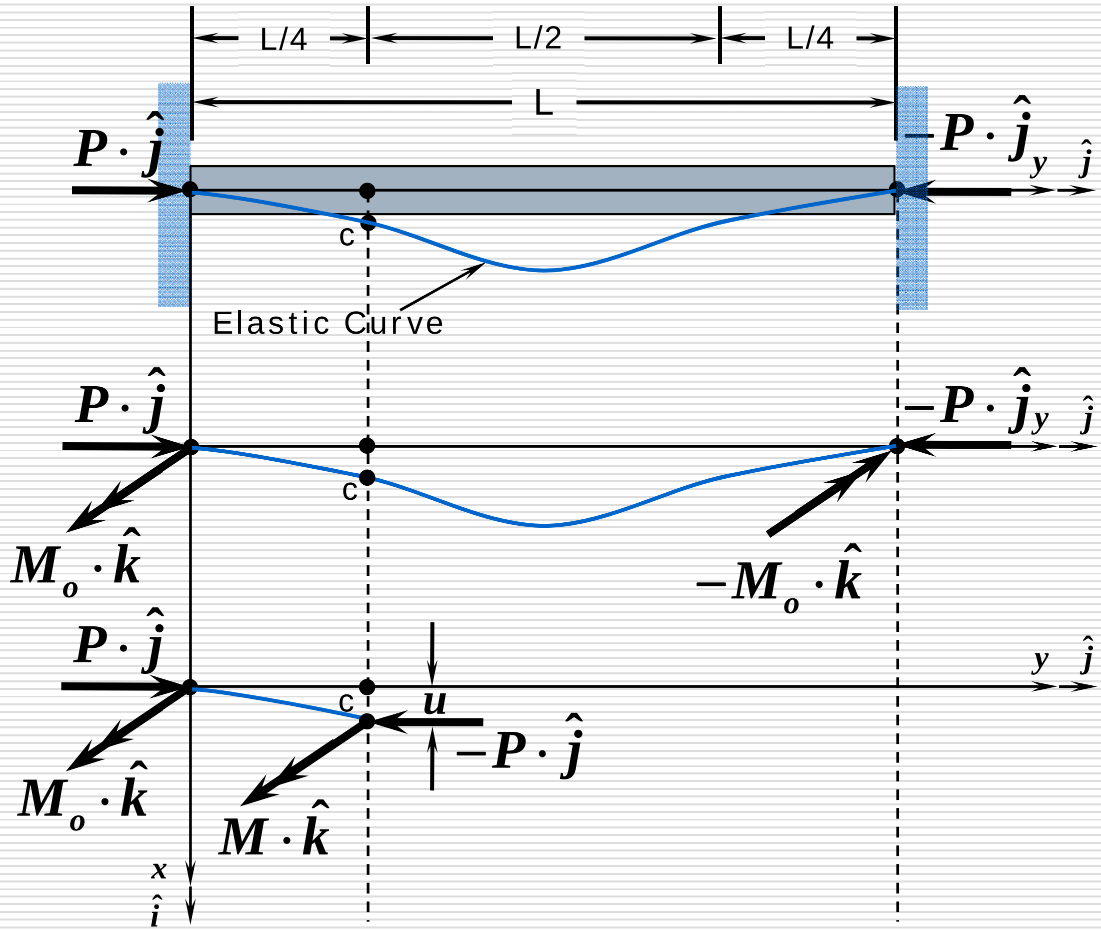
HOMEWORK PROBLEM: Following the procedure used during the class lecture, set up and solve the differential equation to find an expression for $P_{CR}$ for the case of a with Pin-Pin constraints.

$$P_{cr} = \frac{\pi^2}{L^2} \cdot E \cdot I$$



BONUS: Following the procedure used during the class lecture, set up and solve the differential equation to find an expression for $P_{CR}$ for the case of a with Fixed-Fixed constraints.

$$P_{cr} = \frac{4 \cdot \pi^2}{L^2} \cdot E \cdot I$$



BONUS: Following the procedure used during the class lecture, set up and solve the differential equation to find an expression for $P_{CR}$ for the case of a with Fixed-Pinned constraints.

$$P_{cr} = \frac{\pi^2}{0.7^2 L^2} \cdot E \cdot I$$