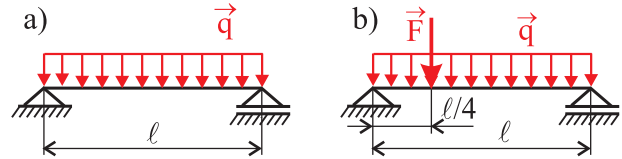


Problem 624

Determine the maximum deflection of the beams with the circular cross sections loaded according the figures.

Input values: $l = 2 \text{ m}$, $\phi d = 30 \text{ mm}$,
 $q = 500 \text{ Nm}^{-1}$, $F = 3000 \text{ N}$,
 $E = 2 \cdot 10^5 \text{ MPa}$, $\sigma_K = 500 \text{ MPa}$



flexion

deflection curve

supported beam