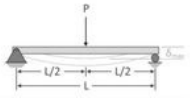
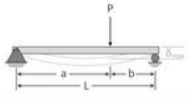
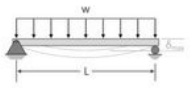
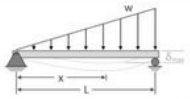
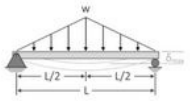
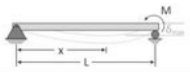
Beam and load cases	Maximum Beam Deflection
	$\delta_{max} = \frac{PL^3}{48EI}$
	$\delta_{max} = \frac{Pb\left(3L^2 - 4b^2\right)}{48EI}$
	$\delta_{max} = \frac{5wL^4}{384EI}$
	$\delta_{max} = \frac{0.00652wL^4}{EI}$
	$\delta_{max} = \frac{wL^4}{120EI}$
	$\delta_{max} = \frac{ML^2}{9\sqrt{3}EI}$

$b := 20\ mm$

$h := 200\ mm$

$L := 1\ m$

$E := 2 \cdot 10^8\ kPa$

$I := \frac{b \cdot h^3}{12} = \left(1.333 \cdot 10^7\right)\ mm^4$

$w := 1\ \frac{kN}{m}$

$\delta_{max} := \frac{5 \cdot w \cdot L^4}{384 \cdot E \cdot I} = 0.00488\ mm$

$\text{abs}\left(1 - \frac{0.005316\ mm}{\delta_{max}}\right) \cdot 100 = 8.872$