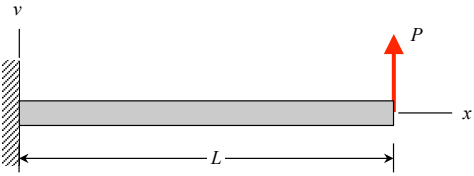
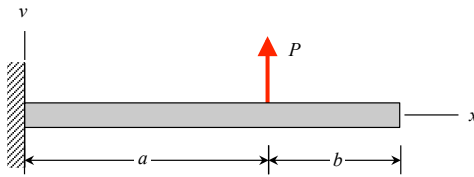
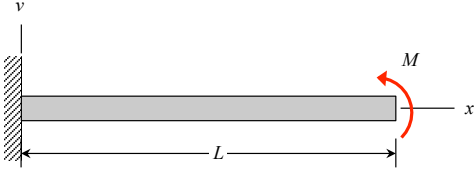
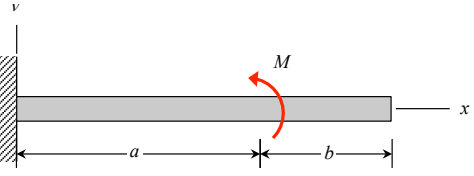
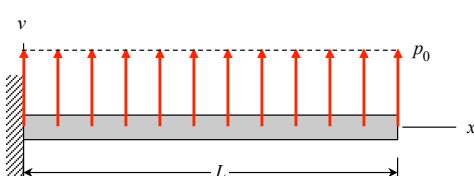
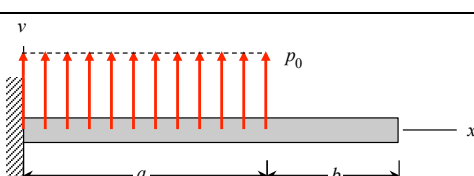
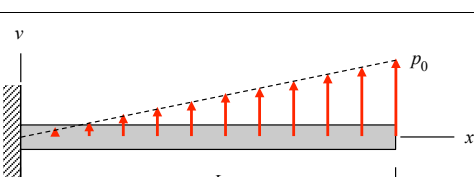
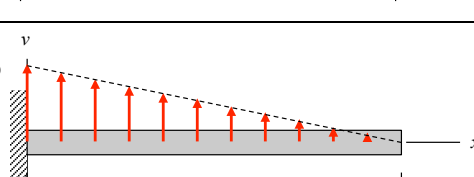


CANTILEVERED BEAMS

Loading on beam	Deflection equation
	$v(x) = \frac{1}{6} \left[x^2 (3L - x) \right] \frac{P}{EI}$
	$v(x) = \frac{1}{6} \left[x^2 (3a - x) \right] \frac{P}{EI} \quad ; \quad 0 < x < a$ $= \frac{1}{6} \left[a^2 (3x - a) \right] \frac{P}{EI} \quad ; \quad a < x < L$
	$v(x) = \frac{1}{2} \left[x^2 \right] \frac{M}{EI}$
	$v(x) = \frac{1}{2} \left[x^2 \right] \frac{M}{EI} \quad ; \quad 0 < x < a$ $= \frac{1}{2} \left[a(2x - a) \right] \frac{M}{EI} \quad ; \quad a < x < L$
	$v(x) = \frac{1}{24} \left[x^2 (6L^2 - 4Lx + x^2) \right] \frac{p_0}{EI}$
	$v(x) = \frac{x^2}{24} \left[6a^2 - 4ax + x^2 \right] \frac{p_0}{EI} \quad ; \quad 0 < x < a$ $= \frac{a^3}{24} \left[4x - a \right] \frac{p_0}{EI} \quad ; \quad a < x < L$
	$v(x) = \frac{1}{120} \left[x^3 (20L^3 - 10L^2x + x^3) \right] \frac{p_0}{LEI}$
	$v(x) = \frac{1}{120} \left[x^2 (10L^3 - 10L^2x + 5Lx^2 - x^3) \right] \frac{p_0}{LEI}$