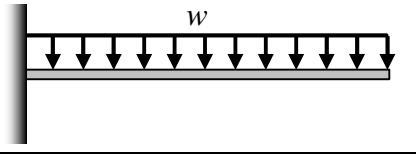
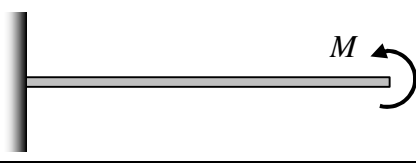
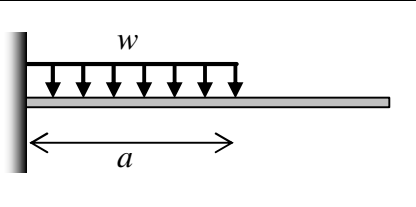
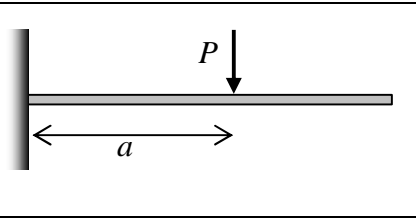
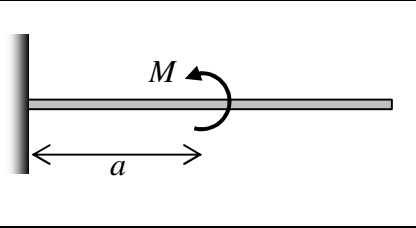
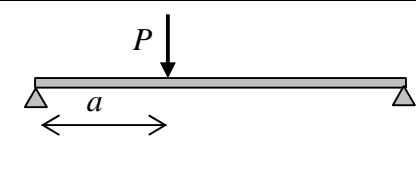
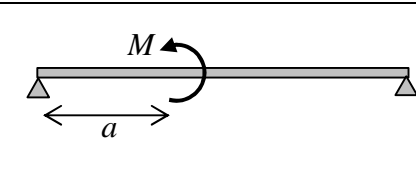
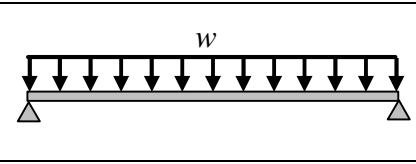
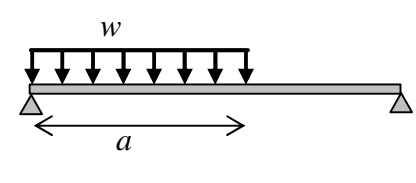


Beam and Loading	Displacement (all beams have total length L)	
	$y = -\frac{w}{24EI} (x^4 - 4Lx^3 + 6L^2x^2)$	
	$y = \frac{Mx^2}{2EI}$	
	$y = -\frac{w}{24EI} (6a^2x^2 - 4ax^3 + x^4)$	$0 \leq x \leq a$
	$y = -\frac{P}{6EI} (3ax^2 - x^3)$	$0 \leq x \leq a$
	$y = \frac{Mx^2}{2EI}$	$0 \leq x \leq a$
	$y = \frac{P(L-a)}{6LEI} (x^3 + a^2x - 2aLx)$	$0 \leq x \leq a$
	$y = -\frac{M}{6LEI} (6aLx - 3a^2x - 2L^2x - x^3)$	$0 \leq x \leq a$
	$y = -\frac{w}{24EI} (x^4 - 2Lx^3 + L^3x)$	
	$y = -\frac{wx}{24LEI} (a^4 - 4La^3 + 4a^2L^2 + 2a^2x^2 - 4aLx^2 + Lx^3)$	$0 \leq x \leq a$
	$y = -\frac{wa^2}{24LEI} (-a^2L + 4L^2x + a^2x - 6Lx^2 + 2x^3)$	$a \leq x \leq L$