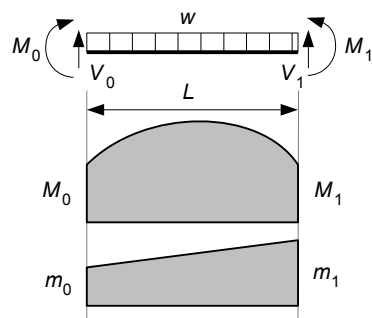


$$\text{Values of } \int_0^L m M dx$$

	Linear M diagrams				Parabolic M diagrams*		
	LmM	$\frac{L}{2}mM_0$	$\frac{L}{2}mM_1$	$\frac{L}{2}m(M_0+M_1)$	$\frac{2L}{3}mM_1$	$\frac{L}{3}mM_1$	$\frac{L}{3}m(2M_0+M_1)$
	$\frac{L}{2}m_0M$	$\frac{L}{3}m_0M_0$	$\frac{L}{6}m_0M_1$	$\frac{L}{6}m_0 \times (2M_0+M_1)$	$\frac{L}{3}m_0M_1$	$\frac{L}{12}m_0M_1$	$\frac{L}{12}m_0 \times (5M_0+M_1)$
	$\frac{L}{2}m_1M$	$\frac{L}{6}m_1M_0$	$\frac{L}{3}m_1M_1$	$\frac{L}{6}m_1 \times (M_0+2M_1)$	$\frac{L}{3}m_1M_1$	$\frac{L}{4}m_1M_1$	$\frac{L}{4}m_1 \times (M_0+M_1)$
	$\frac{L}{2}(m_0+m_1)M$	$\frac{L}{6}(2m_0+m_1) \times M_0$	$\frac{L}{6}(m_0+2m_1) \times M_1$	$\frac{L}{6}[m_0(2M_0+M_1) + m_1(M_0+2M_1)]$	$\frac{L}{3}(m_0+m_1)M_1$	$\frac{L}{12}(m_0+3m_1) \times M_1$	$\frac{L}{12}[m_0(5M_0+M_1) + 3m_1(M_0+M_1)]$

* - note: M_0 and M_1 are positive in the directions shown

Most general case:



$$\int m M dx = \frac{L}{24} [m_0 (wL^2 + 8M_0 + 4M_1) + m_1 (wL^2 + 4M_0 + 8M_1)]$$