



(n)(m)	$\int M_n M_m dx$
(1)(1)	$\frac{l}{3}(a^2 + ab + b^2) = l(h^2 + \frac{d^2}{3})$
(1)(2)	$\frac{l}{6}[a(2a_1 + b_1) + b(2b_1 + a_1)]$ $= \frac{l}{6}[a_1(2a + b) + b_1(2b + a)]$ $= l(hh_1 + \frac{dd_1}{3})$ $= \frac{l}{6}(aa_1 + 4hh_1 + bb_1)$
(1)(3)	$\frac{la_2}{6}(2a + b)$
(1)(5)	$\frac{la_3}{6}(b - a)$
(1)(6)	$\frac{lb_3}{6}(b - a)$
(1)(7)	$\frac{h_1}{2}(lh - \frac{2de}{3})$
(1)(8)	$\frac{hh_1 l}{2}$
(1)(9)	$\frac{2fhl}{3}$
(1)(10)	$\frac{cl}{12}(3b + a)$
(1)(11)	$\frac{c_1 l}{12}(3a + b)$
(1)(13)	$l(hh_1 + \frac{dd_1 - f_1 h}{3})$ $= \frac{l}{6}(aa_1 + 4hh_1 + bb_1)$
(1)(14)	$\frac{l}{6}[a_1(2a + b) + 4f_1 h]$
(1)(15)	$\frac{fl}{6}(b + 3h)$ $= \frac{fl}{12}(3a + 5b)$

(n)(m)	$\int M_n M_m dx$
(1)(16)	$\frac{kv}{2}(a + \frac{2vd}{3l})$
(1)(17)	$\frac{c_2 l}{20}(4a + b)$
(3)(3)	$\frac{la_2^2}{3}$
(3)(4)	$\frac{la_2 b_2}{6}$
(3)(5)	$\frac{la_2 a_3}{6}$
(3)(6)	$\frac{la_2 b_3}{6}$
(3)(7)	$\frac{h_1 a_2}{6}(l + w)$
(3)(8)	$\frac{h_2 a_2 l}{4}$
(3)(9)	$\frac{fa_2 l}{3}$
(3)(10)	$\frac{cla_2}{12}$
(3)(11)	$\frac{c_1 la_2}{4}$
(3)(12)	$\frac{la_2}{6}(a + 2h)$
(3)(14)	$\frac{la_2}{3}(a_1 + f)$
(3)(15)	$\frac{a_2 fl}{4}$
(3)(17)	$\frac{a_2 c_2 l}{5}$
(4)(7)	$\frac{h_2 b_2}{6}(l + w)$
(4)(12)	$\frac{lb_2}{6}(b + 2h)$
(4)(14)	$\frac{lb_2}{6}(a_1 + 2f)$

(n)(m)	$\int M_n M_m dx$
(4)(15)	$\frac{5b_2 fl}{12}$
(4)(16)	$\frac{kb_2 v^2}{6l}$
(4)(17)	$\frac{b_2 c_2 l}{20}$
(5)(5)	$\frac{a_2^2 l}{3}$
(5)(6)	$-\frac{a_3 b_3 l}{3}$
(5)(7)	$\frac{a_3 h_1 e}{3}$
(5)(10)	$-\frac{la_3 c}{6}$
(5)(15)	$-\frac{la_3 f}{6}$
(5)(17)	$\frac{3la_3 c_2}{20}$
(7)(7)	$\frac{h_1^2 l}{3}$
(7)(8)	$\frac{h_1 h_2 l}{2w} \left(\frac{l}{2} - \frac{2v^2}{3l} \right)$
(7)(9)	$\frac{lfh_1}{3} \left(1 + \frac{vw}{12} \right)$
(7)(10)	$\frac{h_1 c}{12} \left(3v + \frac{w^2}{l} \right)$
(7)(15)	$\frac{h_1 f}{12} \left(3l + 3v - \frac{v^2}{l} \right)$
(8)(9)	$\frac{5fh_2 l}{12}$
(9)(9)	$\frac{8f^2 l}{15}$
(9)(10)	$\frac{cfl}{5}$

(n)(m)	$\int M_n M_m dx$
(10)(10)	$\frac{c^2 l}{5}$
(10)(11)	$\frac{cc_1 l}{30}$
(10)(16)	$\frac{ckv^3}{12l^2}$
(11)(16)	$\frac{kvc_1}{12l^2} (6l^2 - 4lv + v^2)$
(12)(12)	$l \left(h^2 + \frac{d^2 - 2fh}{3} + \frac{f^2}{5} \right)$
(12)(13)	$l \left(hh_1 + \frac{dd_1 - fh_1 - f_1 h}{3} + \frac{ff_1}{5} \right)$
(12)(17)	$\frac{c_2 l}{5} \left(a + \frac{b}{4} + \frac{2f}{3} \right)$
(17)(17)	$\frac{c_2^2 l}{7}$