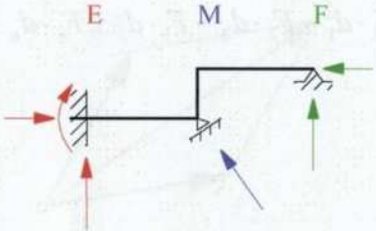
REACTIONS D'APPUIS

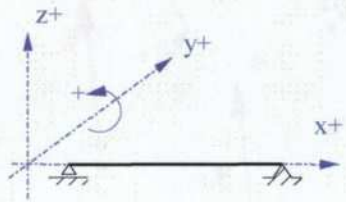
Encastrement	E	3 liaisons
appui fixe	F	2 liaisons
appui mobile	M	1 liaison



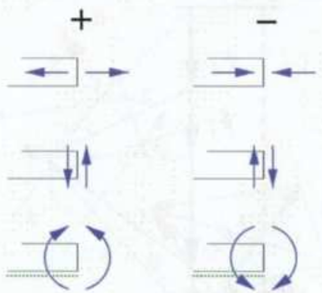
CONDITIONS DE STABILITE

Système isostatique (en plan):

$$\sum M_y = 0$$
$$\sum F_x = 0$$
$$\sum F_z = 0$$



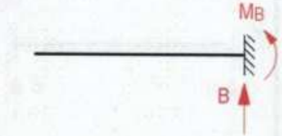
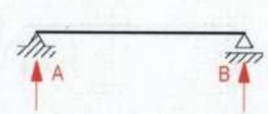
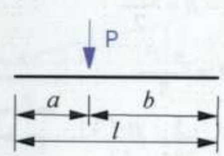
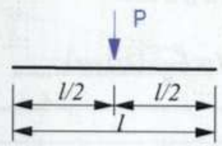
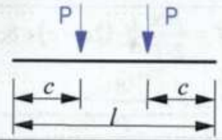
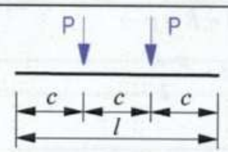
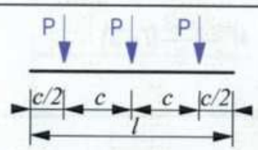
EFFORTS INTERIEURS

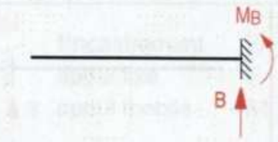
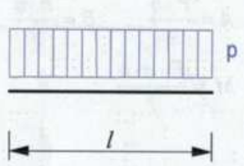
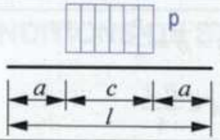
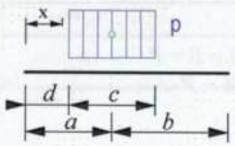
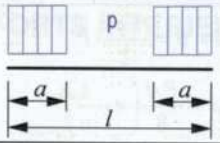
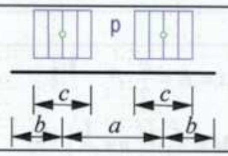


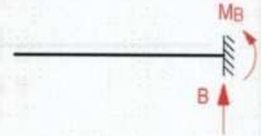
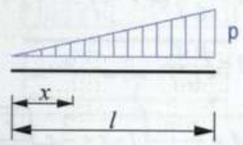
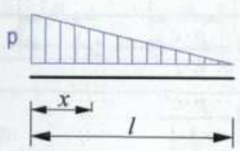
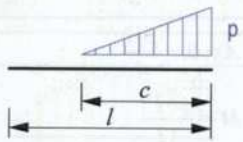
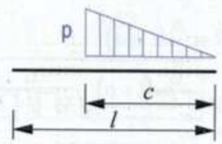
Effort NORMAL N
(traction + compression -)

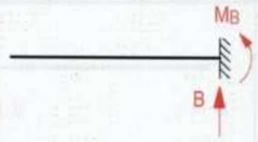
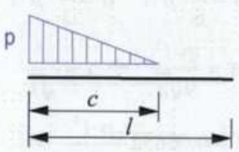
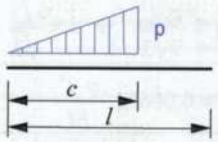
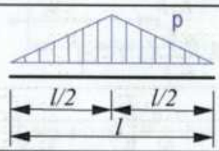
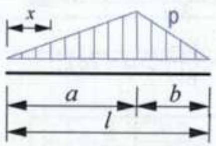
Effort TRANCHANT V
(cisaillement)

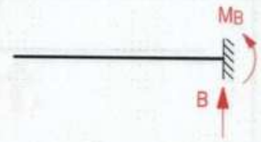
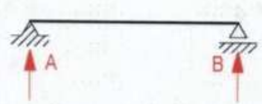
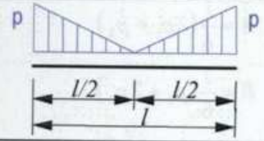
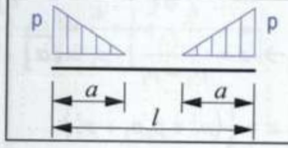
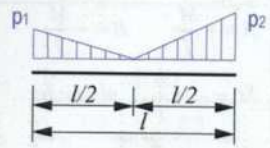
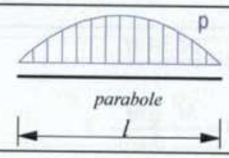
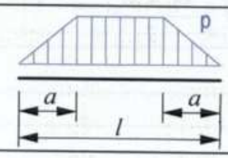
Moment FLECHISSANT M
+ si tendu du côté de la ligne de référence
– si tendu du côté opposé à la ligne de référence

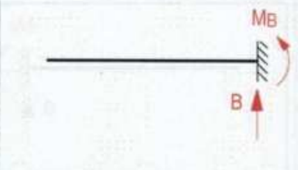
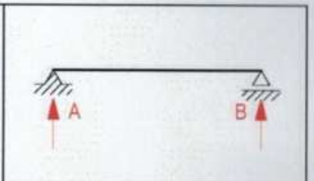
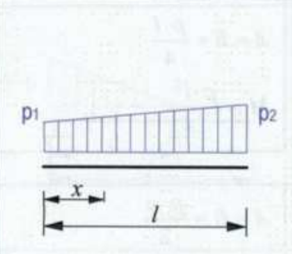
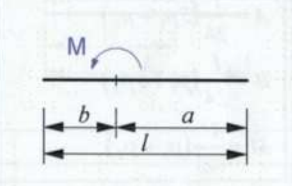
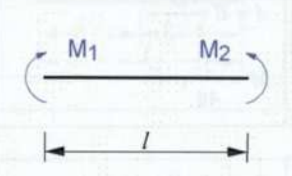
		
	$B = P$ $M_B = -P \cdot b$ $f = \frac{1}{6} \cdot \frac{P}{EI}\left(3 \cdot l \cdot b^2 - b^3\right)$ $f = \frac{1}{3} \cdot \frac{P \cdot l^3}{EI}$ si $b = l$	$A = \frac{P \cdot b}{l}$ $B = \frac{P \cdot a}{l}$ $M = \frac{P \cdot a \cdot b}{l}$
	$B = P$ $M_B = -\frac{P \cdot l}{2}$	$A = B = \frac{P}{2}$ $M = \frac{P \cdot l}{4}$ $f = \frac{1}{48} \cdot \frac{P \cdot l^3}{EI}$
	$B = 2P$ $M_B = -P \cdot l$	$A = B = P$ $M = P \cdot c$
 $n \equiv$ nombre de forces P	$B = (n-1) \cdot P$ $M_B = -\frac{p \cdot l}{8}\left(n - \frac{1}{n}\right)$	$A = B = \frac{n-1}{2} \cdot P$ $M = \frac{P \cdot l}{8}\left(n - \frac{1}{n}\right)$
 $n \equiv$ nombre de forces P	$B = n \cdot P$ $M_B = -\frac{n^2}{2} P \cdot c$	$A = B = \frac{n}{2} \cdot P$ $M = \frac{P \cdot l}{8}\left(n + \frac{1}{n}\right)$

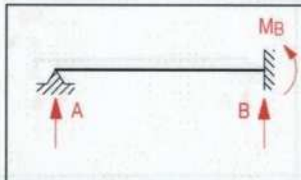
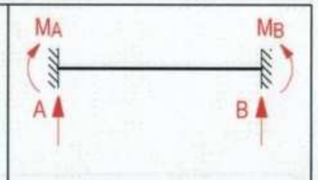
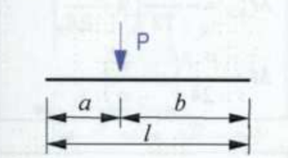
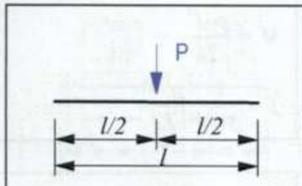
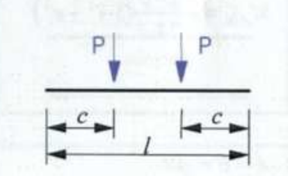
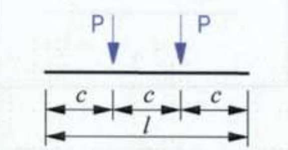
		
	$B=p\cdot l$ $M_B=-\frac{p\cdot l^2}{2}$ $f=\frac{1}{8}\cdot\frac{p\cdot l^4}{EI}$	$A=B=\frac{p\cdot l}{2}$ $M=\frac{p\cdot l^2}{8}$ $f=\frac{5}{384}\cdot\frac{p\cdot l^4}{EI}$
	$B=p\cdot c$ $M_B=-\frac{p\cdot c\cdot l}{2}$	$A=B=\frac{p\cdot c}{2}$ $M=\frac{p\cdot c}{8}(2\cdot l-c)$
	$B=p\cdot c$ $M_B=-p\cdot b\cdot c$	$A=\frac{p\cdot b\cdot c}{l}$ $B=\frac{p\cdot a\cdot c}{l}$ $M=\frac{pbc}{2\cdot l^2}[l\cdot(2a-c)+bc]$ $\rightarrow x=d+\frac{A}{p}$
	$B=2\cdot p\cdot a$ $M_B=-p\cdot a\cdot l$	$A=B=p\cdot a$ $M=\frac{p\cdot a^2}{2}$
	$B=2\cdot p\cdot c$ $M_B=-p\cdot c\cdot l$	$A=B=p\cdot c$ $M=\frac{p\cdot c}{2}(l-a)$

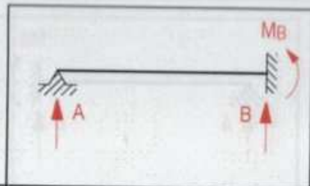
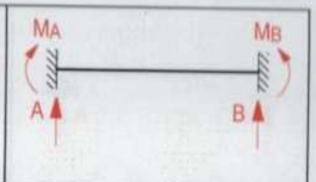
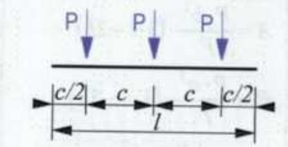
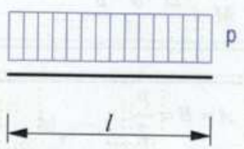
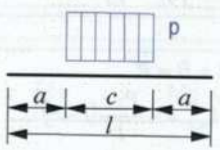
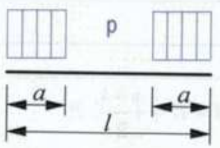
		
	$B=\frac{p\cdot l}{2}$ $M_B=-\frac{p\cdot l^2}{6}$ $f=\frac{1}{30}\cdot\frac{p\cdot l^4}{EI}$	$A=\frac{1}{6}\cdot p\cdot l$ $B=\frac{1}{3}\cdot p\cdot l$ $M=\frac{p\cdot l^2}{9\sqrt{3}}\rightarrow x=\frac{l}{\sqrt{3}}$ $f=0.00652\cdot\frac{p\cdot l^4}{EI}$
	$B=\frac{p\cdot l}{2}$ $M_B=-\frac{p\cdot l^2}{3}$ $f=\frac{11}{120}\cdot\frac{p\cdot l^4}{EI}$	$A=\frac{1}{3}\cdot p\cdot l$ $B=\frac{1}{6}\cdot p\cdot l$ $M=\frac{p\cdot l^2}{9\sqrt{3}}\rightarrow x=\frac{l}{\sqrt{3}}$ $f=0.00652\cdot\frac{p\cdot l^4}{EI}$
	$B=\frac{p\cdot c}{2}$ $M_B=-\frac{p\cdot c^2}{6}$	$A=\frac{p\cdot c^2}{6\cdot l}$ $B=\frac{p\cdot c}{6\cdot l}(3\cdot l-c)$ $M=\frac{p\cdot c^2}{6l}\left(l-c+\frac{2}{3}c\sqrt{\frac{c}{3l}}\right)$
	$B=\frac{p\cdot c}{2}$ $M_B=-\frac{p\cdot c^2}{3}$	$A=\frac{p\cdot c^2}{3\cdot l}$ $B=\frac{p\cdot c}{6\cdot l}(3\cdot l-2c)$ $M=\frac{p\cdot c^2}{3}\left(\sqrt{1-\frac{2}{3}\frac{c}{l}}\right)^3$

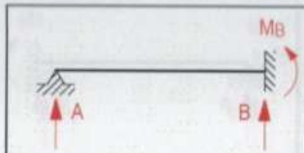
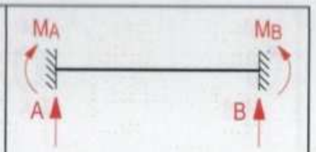
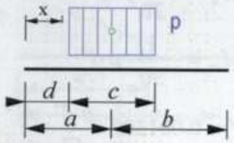
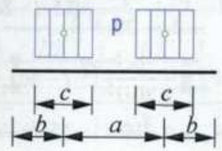
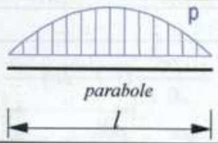
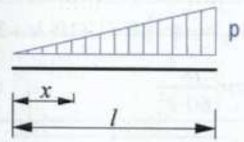
		
	$B=\frac{p\cdot c}{2}$ $M_B=-\frac{p\cdot c}{6}(3\cdot l-c)$	$A=\frac{p\cdot c}{6\cdot l}(3\cdot l-c)$ $B=\frac{p\cdot c^2}{6\cdot l}$ $M=\frac{p\cdot c^2}{6\cdot l}\left(l-c+\frac{2}{3}c\sqrt{\frac{c}{3\cdot l}}\right)$
	$B=\frac{p\cdot c}{2}$ $M_B=-\frac{p\cdot c}{6}(3\cdot l-2c)$	$A=\frac{p\cdot c}{6\cdot l}(3\cdot l-2c)$ $B=\frac{p\cdot c^2}{3\cdot l}$ $M=\frac{p\cdot c^2}{3}\left(\sqrt{1-\frac{2}{3}\frac{c}{l}}\right)^3$
	$B=\frac{p\cdot l}{2}$ $M_B=-\frac{p\cdot l^2}{4}$	$A=B=\frac{p\cdot l}{4}$ $M=\frac{p\cdot l^2}{12}$
	$B=\frac{p\cdot l}{2}$ $M_B=-\frac{p\cdot l}{6}(l+b)$	$A=\frac{p}{6}(l+b)$ $B=\frac{p}{6}(l+a)$ $M=\frac{p\cdot(l+b)}{27}\sqrt{3a\cdot(l+b)}$ $\rightarrow x=\sqrt{\frac{a\cdot(l+b)}{3}} \rightarrow a>b$

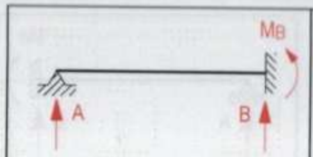
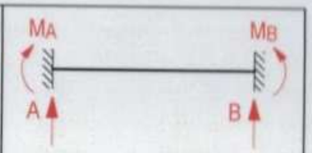
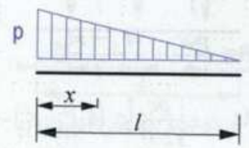
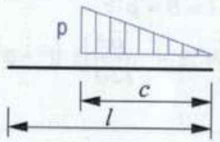
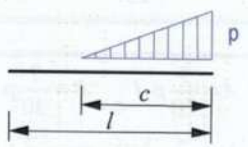
		
	$B=\frac{p\cdot l}{2}$ $M_B=-\frac{p\cdot l^2}{4}$	$A=B=\frac{p\cdot l}{4}$ $M=\frac{p\cdot l^2}{24}$
	$B=p\cdot a$ $M_B=-\frac{p\cdot a\cdot l}{2}$	$A=B=\frac{p\cdot a}{2}$ $M=\frac{p\cdot a^2}{6}$
	$B=\frac{l}{4}(p_1+p_2)$ $M_B=-\frac{l^2}{24}(5p_1+p_2)$	$A=\frac{l}{24}(5p_1+p_2)$ $B=\frac{l}{24}(p_1+5p_2)$ $M=\frac{l^2}{48}(p_1+p_2)$
	$B=\frac{2}{3}p\cdot l$ $M_B=-\frac{p\cdot l^2}{3}$	$A=B=\frac{p\cdot l}{3}$ $M=\frac{5}{48}p\cdot l^2$
	$B=p\cdot(l-a)$ $M_B=-\frac{p\cdot l}{2}(l-a)$	$A=B=\frac{p}{2}(l-a)$ $M=\frac{p}{24}(3\cdot l^2-4a^2)$

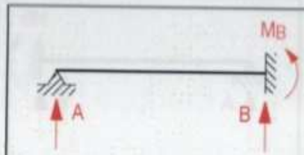
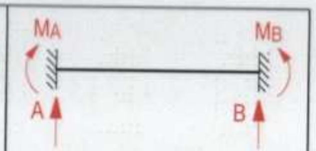
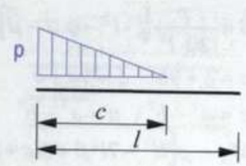
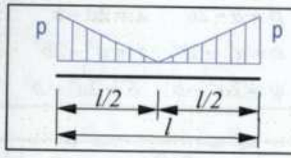
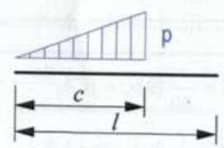
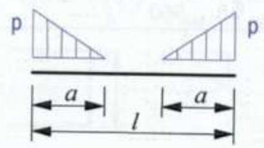
		
	$B=\frac{l}{2}(p_1+p_2)$ $M_B=-\frac{l^2}{6}(2p_1+p_2)$	$A=\frac{l}{6}(2p_1+p_2)$ $B=\frac{l}{6}(p_1+2p_2)$ $M_X=xA-\frac{x^2}{6}\left[3p_1+(p_2-p_1)\frac{x}{l}\right]$ $\rightarrow x=\frac{l}{p_2-p_1}\left[-p_1+\sqrt{\alpha}\right]$ $\alpha=\frac{1}{3}(p_1^2+p_1p_2+p_2^2)$
	$B=0$ $M_B=-M$	$A=+\frac{M}{l}$ $B=-\frac{M}{l}$ $M=-M\frac{b}{l}$ si $a<b$ $M=+M\frac{a}{l}$ si $a>b$
	$B=0$ $M_B=M_1-M_2$	$A=\frac{M_2-M_1}{l}$ $B=\frac{M_1-M_2}{l}$ $M=\frac{M_1+M_2}{2}$

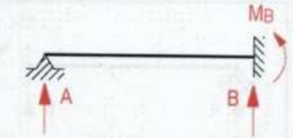
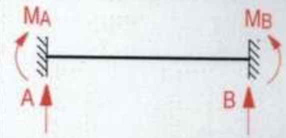
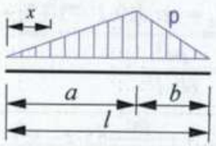
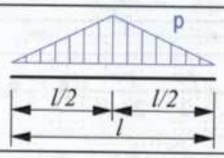
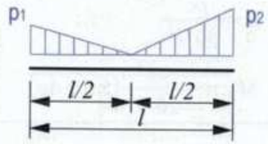
		
	$A=\frac{P\cdot b^2}{2\cdot l^3}(2l+a)$ $B=\frac{P\cdot a}{2\cdot l^3}(3l^2-a^2)$ $M_B=-\frac{P\cdot a\cdot b}{2\cdot l^2}\cdot(l+a)$	$A=\frac{P\cdot b^2}{l^3}\cdot(3\cdot l-2b)$ $B=\frac{P\cdot a^2}{l^3}\cdot(3\cdot l-2a)$ $M_A=-\frac{P\cdot a\cdot b^2}{l^2}$ $M_B=-\frac{P\cdot a^2\cdot b}{l^2}$ $M=\frac{2P\cdot a^2\cdot b^2}{l^2}$
	$A=\frac{5}{16}P$ $B=\frac{11}{16}P$ $M_B=-\frac{3}{16}P\cdot l$ $f=\frac{1}{107.3}\cdot\frac{P\cdot l^3}{EI}$	$A=B=\frac{P}{2}$ $M=-M_{A,B}=\frac{P\cdot l}{8}$ $f=\frac{1}{192}\cdot\frac{P\cdot l^3}{EI}$
	$A=P\cdot\left[1-\frac{3}{2}\cdot\left(\frac{c}{l}-\frac{c^2}{l^2}\right)\right]$ $B=P\cdot\left[1+\frac{3}{2}\cdot\left(\frac{c}{l}-\frac{c^2}{l^2}\right)\right]$ $M_B=-\frac{3P\cdot c}{2\cdot l}(l-c)$	$A=B=P$ $M_{A,B}=-\frac{P\cdot c}{l}(l-c)$ $M=\frac{P\cdot c^2}{l}$
 $n\equiv$ nombre de forces P	$A=\frac{P}{8}\cdot\left(3n+\frac{1}{n}-4\right)$ $B=\frac{P}{8}\cdot\left(5n-\frac{1}{n}-4\right)$ $M_B=-\frac{P\cdot l}{8}\cdot\left(n-\frac{1}{n}\right)$	$A=B=\frac{n-1}{2}\cdot P$ $M_{A,B}=-\frac{P\cdot l}{12}\cdot\left(n-\frac{1}{n}\right)$ $M=\frac{P\cdot l}{24}\left(n-\frac{1}{n}\right)$

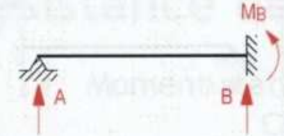
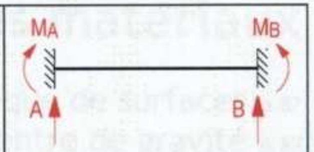
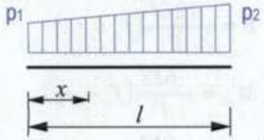
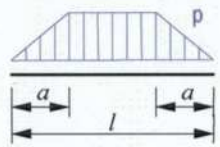
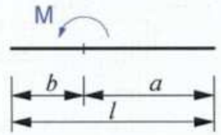
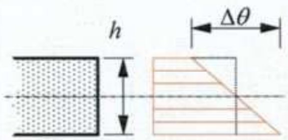
		
 $n \equiv$ nombre de forces P	$A=\frac{P}{8}\left(3n-\frac{1}{2n}\right)$ $B=\frac{P}{8}\left(5n-\frac{1}{2n}\right)$ $M_B=-\frac{P\cdot l}{8}\left(n+\frac{1}{2n}\right)$	$A=B=\frac{n}{2}P$ $M_{A,B}=-\frac{P\cdot l}{12}\left(n+\frac{1}{2n}\right)$ $M=\frac{P\cdot l}{24}\left(n+\frac{2}{n}\right)$
	$A=\frac{3}{8}p\cdot l \qquad B=\frac{5}{8}p\cdot l$ $M_B=-\frac{p\cdot l^2}{8} \rightarrow x=\frac{3}{8}l$ $f=\frac{1}{185}\cdot\frac{p\cdot l^4}{EI}$ $\rightarrow x=0.4215\cdot l$	$A=B=\frac{p\cdot l}{2}$ $M_{A,B}=-\frac{p\cdot l^2}{12}$ $M=\frac{p\cdot l^2}{24}$ $f=\frac{1}{384}\cdot\frac{p\cdot l^4}{EI}$
	$A=\frac{p\cdot c}{16\cdot l^2}\left(5\cdot l^2+c^2\right)$ $B=\frac{p\cdot c}{16\cdot l^2}\left(11\cdot l^2-c^2\right)$ $M_B=-\frac{p\cdot c}{16\cdot l}\left(3\cdot l^2-c^2\right)$	$A=B=\frac{p\cdot c}{2}$ $M_{A,B}=-\frac{p\cdot c}{24\cdot l}\left(3\cdot l^2-c^2\right)$
	$A=\frac{pa}{4\cdot l^2}\left(4\cdot l^2-3\cdot la+2a^2\right)$ $B=\frac{pa}{4\cdot l^2}\left(4\cdot l^2+3\cdot la-2a^2\right)$ $M_B=-\frac{pa^2}{4\cdot l}\left(3\cdot l-2a\right)$	$A=B=pa$ $M_{A,B}=-\frac{pa^2}{6\cdot l}\left(3\cdot l-2a\right)$

		
	$A=pc-\frac{pca}{8\cdot l^3}\left(12\cdot l^2-4a^2-c^2\right)$ $B=\frac{pca}{8\cdot l^3}\left(12\cdot l^2-4a^2-c^2\right)$ $M_B=-\frac{pca}{8\cdot l^2}\left[4\left(l^2-a^2\right)-c^2\right]$	$A=\frac{pbc}{l}+\frac{M_B-M_A}{l}$ $B=\frac{pac}{l}+\frac{M_A-M_B}{l}$ $M_A=-\frac{pc}{12\cdot l^2}\left[\alpha\cdot\left(4\cdot l^2-c^2\right)-4\eta\right]$ $\alpha=2b-a \qquad \eta=2b^3-a^3$ $M_B=-\frac{pc}{12\cdot l^2}\left[\beta\cdot\left(4\cdot l^2-c^2\right)-4\xi\right]$ $\beta=2a-b \qquad \xi=2a^3-b^3$
	$A=\frac{pc}{8\cdot l^2}\left(5l^2+3a^2+c^2\right)$ $B=\frac{pc}{8\cdot l^2}\left(11l^2-3a^2-c^2\right)$ $M_B=-\frac{pc}{8l}\left[3\cdot\left(l^2-a^2\right)-c^2\right]$	$A=B=p\cdot c$ $M_{A,B}=-\frac{pc}{12\cdot l}\left[3\cdot\left(l^2-a^2\right)-c^2\right]$
	$A=\frac{7}{30}p\cdot l$ $M_B=-\frac{1}{10}p\cdot l^2$	$A=B=\frac{1}{3}p\cdot l$ $M_{A,B}=-\frac{1}{15}p\cdot l^2$
	$A=\frac{1}{10}p\cdot l \qquad B=\frac{4}{10}p\cdot l$ $M_B=-\frac{1}{15}\cdot p\cdot l^2$ $f=0.002385\cdot\frac{p\cdot l^4}{EI}$	$A=\frac{3}{20}p\cdot l \qquad B=\frac{7}{20}p\cdot l$ $M_A=-\frac{1}{30}\cdot p\cdot l^2$ $M_B=-\frac{1}{20}\cdot p\cdot l^2$ $f=0.001309\cdot\frac{p\cdot l^4}{EI}$

		
	$A=\frac{11}{40}p\cdot l \quad B=\frac{9}{40}p\cdot l$ $M_B=-\frac{7}{120}p\cdot l^2$ $f=0.0030475\cdot\frac{p\cdot l^4}{EI}$	$A=\frac{7}{20}p\cdot l \quad B=\frac{3}{30}p\cdot l$ $M_A=-\frac{1}{20}p\cdot l^2$ $M_B=-\frac{1}{30}\cdot p\cdot l^2$ $f=0.001309\cdot\frac{p\cdot l^4}{EI}$
	$A=\frac{pc^3}{40\cdot l^3}(15\cdot l-4c)$ $B=\frac{pc}{2}-\frac{pc^3}{40\cdot l^3}(15\cdot l-4c)$ $M_B=-\alpha\cdot(40\cdot l^2-45\cdot lc+12c^2)$ $\alpha=\frac{pc^2}{120\cdot l^2}$	$A=\frac{pc^3}{20\cdot l^3}(15\cdot l-8c)$ $B=\frac{pc}{2}-\frac{pc^3}{20\cdot l^3}(15\cdot l-8c)$ $M_A=-\frac{pc^3}{20\cdot l^2}(5\cdot l-4c)$ $M_B=\alpha\cdot(10\cdot l^2-15\cdot lc-6c^2)$ $\alpha=\frac{pc^2}{30\cdot l^2}$
	$A=\frac{pc^3}{40\cdot l^3}(5\cdot l-c)$ $B=\frac{pc}{2}-\frac{pc^3}{40\cdot l^3}(5\cdot l-c)$ $M_B=-\alpha(20\cdot l^2-15\cdot lc+3c^2)$ $\alpha=\frac{pc^2}{120\cdot l^2}$	$A=\frac{pc^3}{20\cdot l^3}(5\cdot l-2c)$ $B=\frac{pc}{2}-\frac{pc^3}{20\cdot l^3}(5\cdot l-2c)$ $M_A=-\frac{pc^3}{60\cdot l^2}(5\cdot l-3c)$ $M_B=-\alpha\cdot(10\cdot l^2-10\cdot lc+3c^2)$ $\alpha=\frac{pc^2}{60\cdot l^2}$

		
	$A=\frac{pc}{2}-\frac{pc^2}{40\cdot l^3}(10\cdot l^2-c^2)$ $B=\frac{pc^2}{40\cdot l^3}(10\cdot l^2-c^2)$ $M_B=-\frac{pc^2}{120\cdot l^2}(10\cdot l^2-3c^2)$	$A=\frac{pc}{2}-\frac{pc^3}{20\cdot l^3}(5\cdot l-2c)$ $B=\frac{pc^3}{20\cdot l^3}(5\cdot l-2c)$ $M_A=-\alpha\cdot(10\cdot l^2-10\cdot lc+3c^2)$ $\alpha=\frac{pc^2}{60\cdot l^2}$ $M_B=-\frac{pc^3}{60\cdot l^2}(5\cdot l-3c)$
	$A=\frac{13}{64}p\cdot l \quad A=\frac{19}{64}p\cdot l$ $M_B=-\frac{3}{64}p\cdot l^2$	$A=B=\frac{p\cdot l}{4}$ $M_{A,B}=-\frac{p\cdot l^2}{32}$
	$A=\frac{pc}{2}-\frac{pc^2}{10\cdot l^3}(5\cdot l^2-c^2)$ $B=\frac{pc^2}{10\cdot l^3}(5\cdot l^2-c^2)$ $M_B=-\frac{pc^2}{30\cdot l^2}(5\cdot l^2-3c^2)$	$A=\frac{pc}{2}-\frac{pc^3}{20\cdot l^3}(15\cdot l-8c)$ $B=\frac{pc^3}{20\cdot l^3}(15\cdot l-8c)$ $M_A=-\alpha\cdot(10\cdot l^2-15\cdot lc+6c^2)$ $\alpha=\frac{pc^2}{30\cdot l^2}$ $M_B=-\frac{pc^3}{20\cdot l^2}(5\cdot l-4c)$
	$A=\frac{pa}{8\cdot l^2}\left[3\cdot l^2+(l-a)^2\right]$ $B=\frac{pa}{8\cdot l^2}\left[3\cdot l^2-2a^2+(l+a)^2\right]$ $M_B=-\frac{pa^2}{8\cdot l}(2\cdot l-a)$	$A=B=\frac{p\cdot a}{2}$ $M_{A,B}=-\frac{pa^2}{12\cdot l}(2\cdot l-a)$

		
	$A=\frac{p}{40}\left[11\cdot l-9a+\frac{a^2(l+a)}{l^2}\right]$ $B=\frac{p}{40}\left[9\cdot(l+a)-\frac{a^2(l+a)}{l^2}\right]$ $M_B=-\frac{p\cdot l}{120}(l+a)\left(7-3\frac{a^2}{l^2}\right)$	$A=\frac{p}{20\cdot l^2}\left[\alpha\cdot l^2+\varphi\cdot l+\mu\right]$ $B=\frac{p}{20\cdot l^2}\left[\xi\cdot l^2-\varphi\cdot l-\mu\right]$ $\alpha=a+9b \quad \xi=9a+b$ $\varphi=a^2-b^2 \quad \mu=a^3-b^3$ $M_A=\rho\left[7l^3-7l^2\beta+3l\varepsilon+3\gamma\right]$ $M_B=\rho\left[7l^3+7l^2\lambda-3l\psi-3\delta\right]$ $\rho=-\frac{p}{180l}$ $\beta=a-2b \quad \lambda=2a-b$ $\varepsilon=a^2-2b^2 \quad \gamma=a^3-2b^3$ $\psi=2a^2-b^2 \quad \delta=2a^3-b^3$
	$A=\frac{11}{64}pl \quad B=\frac{21}{64}pl$ $M_B=-\frac{5}{64}p\cdot l^2$	$A=B=\frac{p\cdot l}{4}$ $M_{A,B}=-\frac{5}{96}p\cdot l^2$
	$A=\frac{l}{640}(121p_1+9p_2)$ $B=\frac{l}{640}(39p_1+151p_2)$ $M_B=-\frac{l^2}{1920}(37p_1+53p_2)$	$A=\frac{l}{40}(9p_1+p_2)$ $B=\frac{l}{40}(p_1+3p_2)$ $M_A=-\frac{l^2}{960}(23p_1+7p_2)$ $M_B=-\frac{l^2}{960}(7p_1+23p_2)$

		
	$A=\frac{l}{40}(11p_1+4p_2)$ $B=\frac{l}{40}(9p_1+16p_2)$ $M_B=-\frac{l^2}{120}(7p_1+8p_2)$	$A=\frac{l}{20}(7p_1+3p_2)$ $B=\frac{l}{20}(3p_1+7p_2)$ $M_A=-\frac{l^2}{60}(3p_1+2p_2)$ $M_B=-\frac{l^2}{60}(2p_1+3p_2)$
	$A=\alpha\cdot\left[(2\cdot l-a)^2-l^2+a^2-\frac{a^3}{l}\right]$ $B=\alpha\cdot\left[(2\cdot l-a)^2+l^2-3a^2+\frac{a^3}{l}\right]$ $\alpha=\frac{p}{8\cdot l}$ $M_B=-\frac{p}{8}\left(l^2-2a^2+\frac{a^3}{l}\right)$	$A=B=\frac{p}{2}(l-a)$ $M_{A,B}=-\frac{p}{12}\left(l^2-2a^2+\frac{a^3}{l}\right)$
	$A=+\frac{3M}{2\cdot l^3}(l^2-a^2)$ $B=-\frac{3M}{2\cdot l^3}(l^2-a^2)$ $M_B=+\frac{3M}{2\cdot l^2}(l^2-3a^2)$	$A=+\frac{6Mab}{l^3} \quad A=-\frac{6Mab}{l^3}$ $M_A=-\frac{Mb}{l^2}(3a-l)$ $M_B=+\frac{Ma}{l^2}(3b-l)$
	$A=-\frac{3EI}{2\cdot lh}\Delta\theta\cdot\alpha$ $B=+\frac{3EI}{2\cdot lh}\Delta\theta\cdot\alpha$ $M_B=-\frac{3EI}{2h}\Delta\theta\cdot\alpha$	$A=B=0$ $M_{A,B}=-\frac{3EI}{h}\Delta\theta\cdot\alpha$