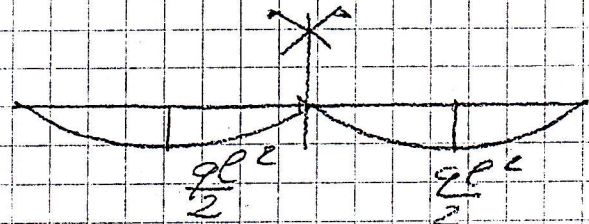
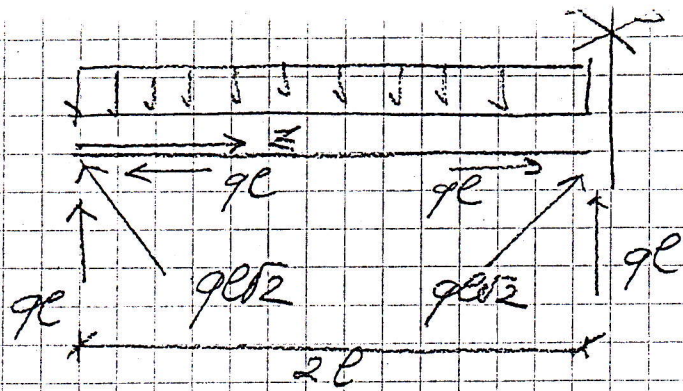
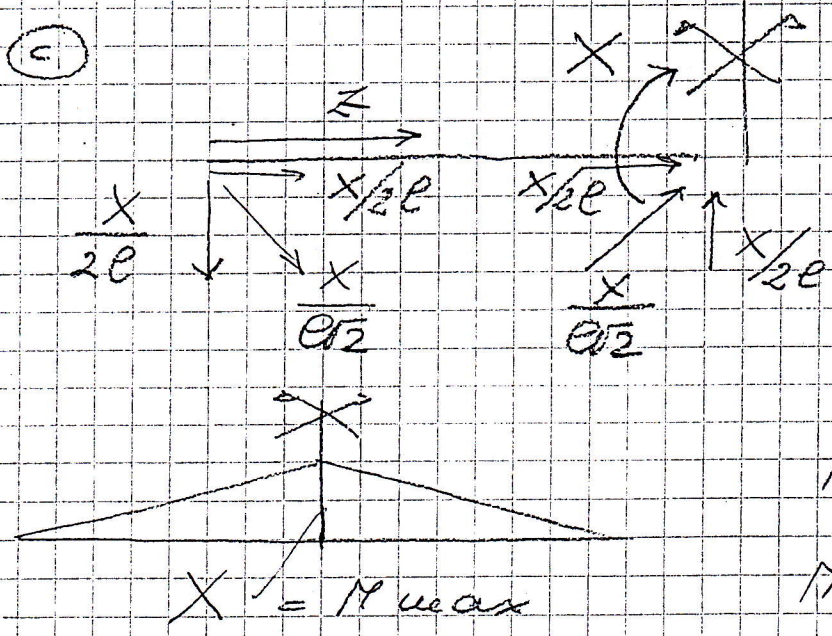


(a)



$$M_{max} = q \cdot l \cdot l - q \cdot l \cdot \frac{l}{2} = \frac{q l^2}{2}$$

(b) + (c)



$$N^z = N(q) + N^f \cdot X$$

$$M^z = M(q) + M^f \cdot X$$

	AB	AC	BC
l_z	$l\sqrt{2}$	$l\sqrt{2}$	$2l$
N^f	$\frac{1}{\sqrt{2}}$	$-\frac{1}{\sqrt{2}}$	$-\frac{1}{2l}$
M^f	0	0	$-\frac{1}{2l} z$
$M(q)$	0	0	$q l z - q z^2/2$
$N(q)$	$-q l \sqrt{2}$	$-q l \sqrt{2}$	$q l$