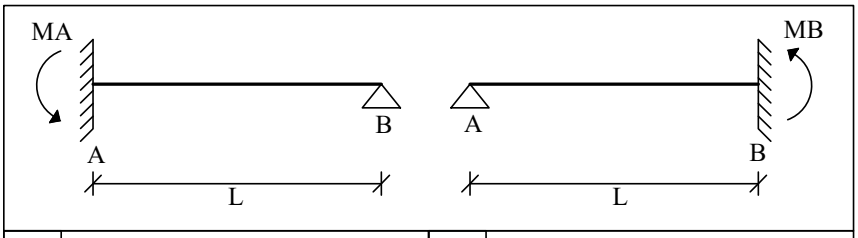
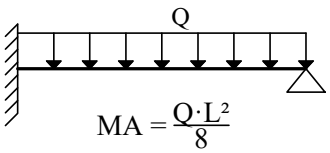
UNIVERSIDADE DO OESTE DE SANTA CATARINA - UNOESC
PROFESSOR: EVANDRO PAULO FOLLETTO
FORMULÁRIO PARA A DISCIPLINA DE RESISTÊNCIA DOS MATERIAIS II.

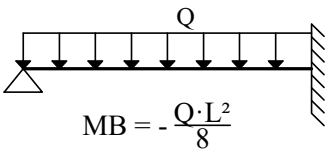


1.a



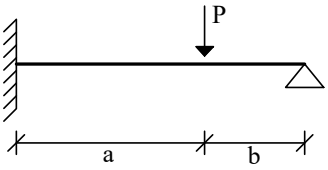
$$MA = \frac{Q \cdot L^2}{8}$$

1.b



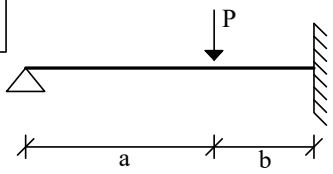
$$MB = -\frac{Q \cdot L^2}{8}$$

2.a



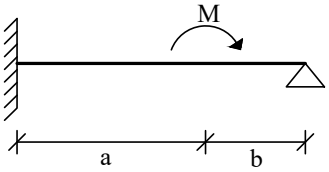
$$MA = \frac{P \cdot a \cdot b}{2} \cdot \frac{L+b}{L^2}$$

2.b



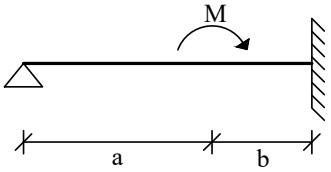
$$Mb = -\frac{P \cdot a \cdot b}{2} \cdot \frac{L+a}{L^2}$$

3.a



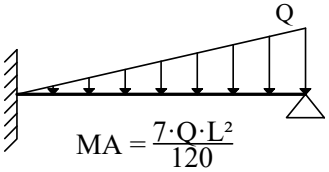
$$MA = \frac{M}{2 \cdot L^2} \cdot (3 \cdot b^2 - L^2)$$

3.b



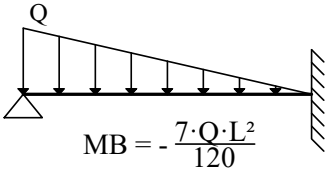
$$MB = -\frac{M}{2 \cdot L^2} \cdot (L^2 - 3 \cdot a^2)$$

4.a



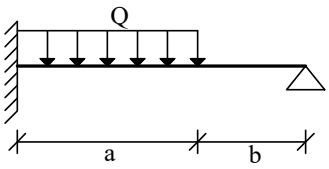
$$MA = \frac{7 \cdot Q \cdot L^2}{120}$$

4.b



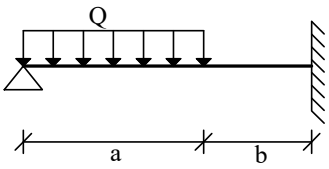
$$MB = -\frac{7 \cdot Q \cdot L^2}{120}$$

5.a



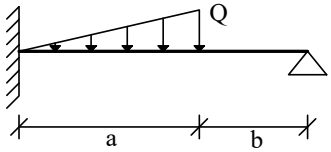
$$MA = \frac{Q \cdot a^2}{8 \cdot L^2} \cdot (2 \cdot L - a)^2$$

5.b



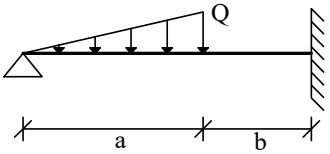
$$MB = -\frac{Q \cdot a^2}{8 \cdot L^2} \cdot (2 \cdot L^2 - a^2)$$

6.a

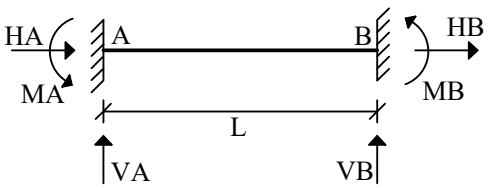


$$MA = \frac{Q \cdot a^2}{120 \cdot L^2} \cdot (40 \cdot L^2 - 45 \cdot L \cdot a + 12 \cdot a^2)$$

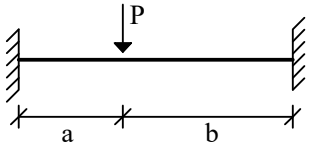
6.b



$$MB = -\frac{Q \cdot a^2}{30 \cdot L^2} \cdot (5 \cdot L^2 - 3 \cdot a^2)$$



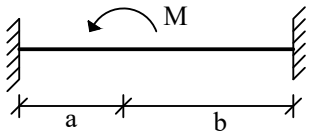
1



$MA = \frac{P \cdot a \cdot b^2}{L^2}$ $MB = \frac{-P \cdot a^2 \cdot b}{L^2}$

$VA = \frac{P \cdot b^2}{L^3} \cdot (3 \cdot a + b)$ $VB = \frac{P \cdot a^2}{L^3} \cdot (a + 3 \cdot b)$

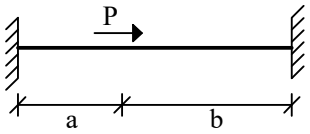
2



$MA = \frac{M \cdot b}{L^2} \cdot (2 \cdot a - b)$ $MB = \frac{M \cdot a}{L^2} \cdot (2 \cdot b - a)$

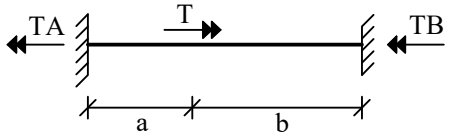
$VA = \frac{6 \cdot M \cdot a \cdot b}{L^3}$ $VB = \frac{-6 \cdot M \cdot a \cdot b}{L^3}$

3



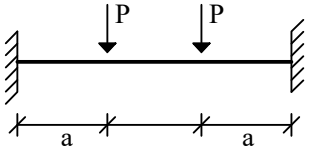
$HA = \frac{P \cdot b}{L}$ $HB = \frac{-P \cdot a}{L}$

4



$TA = \frac{T \cdot b}{L}$ $TB = \frac{T \cdot a}{L}$

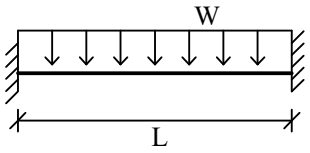
5



$MA = \frac{P \cdot a}{L} \cdot (L - a)$ $MB = \frac{-P \cdot a}{L} \cdot (L - a)$

$VA = P$ $VB = P$

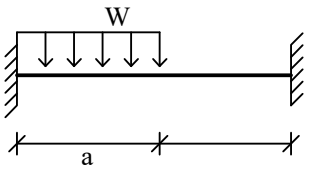
6



$MA = \frac{W \cdot L^2}{12}$ $MB = \frac{-W \cdot L^2}{12}$

$VA = \frac{W \cdot L}{2}$ $VB = \frac{W \cdot L}{2}$

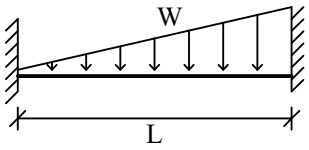
7



$MA = \frac{W \cdot a^2}{12 \cdot L^2} \cdot (6 \cdot L^2 - 8 \cdot a \cdot L + 3 \cdot a^2)$ $MB = \frac{-W \cdot a^3}{12 \cdot L^2} \cdot (4 \cdot L - 3 \cdot a)$

$VA = \frac{W \cdot a}{2 \cdot L^3} \cdot (2 \cdot L^3 - 2 \cdot a^2 \cdot L + a^3)$ $VB = \frac{W \cdot a^3}{2 \cdot L^3} \cdot (2 \cdot L - a)$

8



$MA = \frac{W \cdot L^2}{30}$ $MB = \frac{-W \cdot L^2}{20}$

$VA = \frac{3 \cdot W \cdot L}{20}$ $VB = \frac{7 \cdot W \cdot L}{20}$