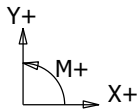
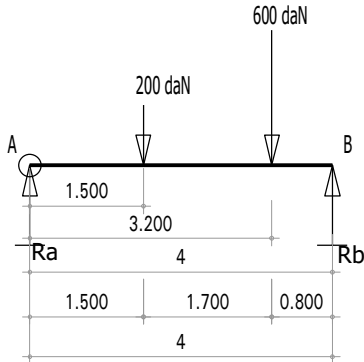


1

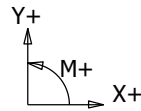


Somme des forces / Y = 0
 $R_a - 200 - 600 + R_b = 0$
 $R_a = 800 - R_b$

Somme des moments / A = 0
 $(-200 \cdot 1.5) + (-600 \cdot 3.2) + (R_b \cdot 4) = 0$
 $4R_b = 300 + 1920$
 $R_b = 555 \text{ daN}$
 donc $R_a = 800 - 555$
 $R_a = 245 \text{ daN}$

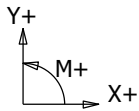
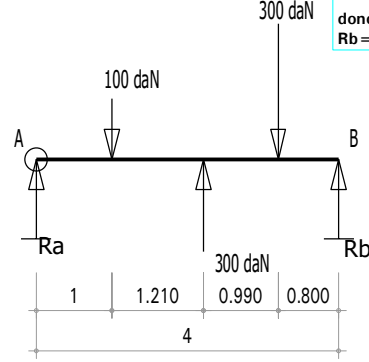


2



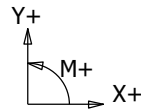
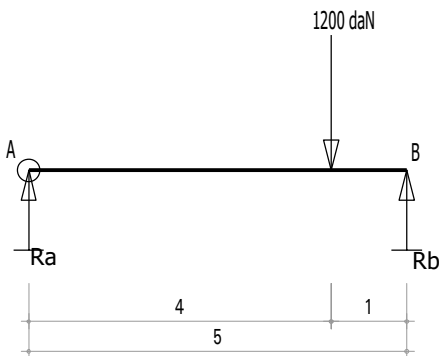
Somme des forces / Y = 0
 $R_a - 100 + 300 - 300 + R_b = 0$
 $R_b = 100 - R_a$

Somme des moments / B = 0
 $-(R_a \cdot 4) + (100 \cdot 3) - (300 \cdot 1.79) + (300 \cdot 0.8) = 0$
 $-4R_a + 300 - 537 + 240 = 0$
 $-4R_a = -3$
 $R_a = 0.75 \text{ daN}$
 donc $R_b = 100 - 0.75$
 $R_b = 99.25 \text{ daN}$



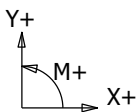
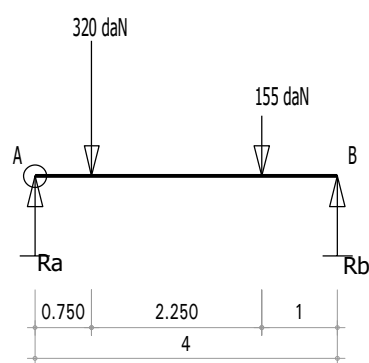
Somme des forces / Y = 0
 $R_a - 1200 + R_b = 0$
 $R_a = -R_b + 1200$

Somme des moments / A = 0
 $-(1200 \cdot 4) + (R_b \cdot 5) = 0$
 $5R_b = 4800$
 $R_b = 960 \text{ daN}$
 Donc $R_a = -960 + 1200$
 $R_a = 240 \text{ daN}$



Somme des forces / Y = 0
 $R_a - 320 - 155 + R_b = 0$
 $R_a = 475 - R_b$

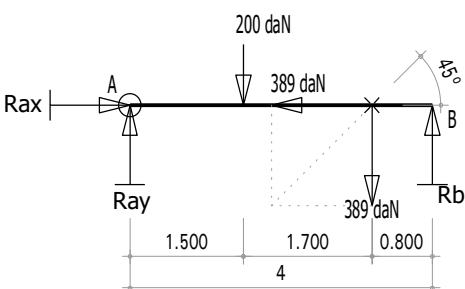
Somme des moments / A = 0
 $-(320 \cdot 0.75) - (155 \cdot 3) + (R_b \cdot 4) = 0$
 $4R_b = 705$
 $R_b = 176.25 \text{ daN}$
 Donc $R_a = 475 - 176.25$
 $R_a = 298.75 \text{ daN}$



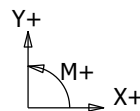
Somme des forces / X = 0
 $R_{ax} - 389 = 0$
 $R_{ax} = 389 \text{ daN}$

Somme des forces / Y = 0
 $R_{ay} - 200 - 389 + R_b = 0$
 $R_{ay} = 589 - R_b$

Somme des moments / A = 0
 $-(200 \cdot 1.5) - (389 \cdot 3.2) + (R_b \cdot 4) = 0$
 $4R_b = 1545$
 $R_b = 386 \text{ daN}$
 Donc $R_{ay} = 589 - 386$
 $R_{ay} = 203 \text{ daN}$



6



Somme des forces / X = 0
 $R_{ax} + 75 + 71 = 0$
 $R_{ax} = -146 \text{ daN}$

Somme des forces / Y = 0
 $R_{ay} - 130 + 71 - 450 + R_b = 0$
 $R_b = 509 - R_{ay}$

Somme des moments / B = 0
 $-(R_{ay} \cdot 5.5) + (130 \cdot 3.8) - (71 \cdot 2.3) + (450 \cdot 1.55) = 0$
 $-5.5R_{ay} + 494 - 163.3 + 697.5 = 0$
 $R_{ay} = 187 \text{ daN}$
 Donc $R_b = 509 - 187$
 $R_b = 322 \text{ daN}$

