

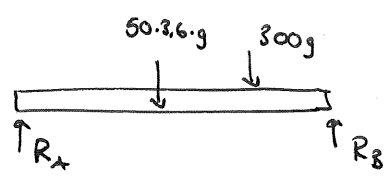
1. a) $\curvearrowright T \cdot x = 0,6g \cdot 0,40 = 0$

$$T = \frac{0,6g \cdot 0,40}{0,03} = 78,5N$$

(\uparrow) $\Rightarrow P = T + 0,6g = 84,4N$

b) $T = \frac{0,6g \cdot 0,40}{0,10} = 23,5N$

$P = T + 0,6g = 29,4N$

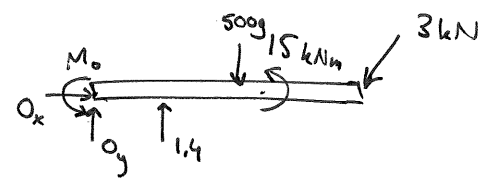


2 (\curvearrowright) $300g \cdot 2,4 + 50g \cdot 3,6 \cdot 1,8 - R_B \cdot 3,6 = 0$

$R_B = 2845N$

(\uparrow) $R_A - 50 \cdot 3,6g - 300g + R_B = 0 \Rightarrow R_A = 1864N$

3. (\rightarrow) $O_x - 3 \cdot 10^3 \sin 30^\circ = 0 \Rightarrow O_x = 1,5kN$



(\uparrow) $O_y + 1,4 \cdot 10^3 - 500g - 3 \cdot 10^3 \cos 30^\circ = 0$
 $\Rightarrow O_y = 6,1kN$

(\curvearrowright) $M_o + 15 \cdot 10^3 + 1,4 \cdot 10^3 \cdot 1,2 - 500g \cdot 2,4 - 3 \cdot 10^3 \cdot \cos 30^\circ \cdot 4,8 = 0 \Rightarrow M_o = 7,56kNm$

(positiv = moturs!)

4. (\uparrow) $N - mg + 5S = 0$

$N = 311,7N$

$m_{\text{veg}} = \frac{N}{g} = 31,8kg$



5. Lada :

Lastbil :

