$h: 2{,}5\,m$

$l: 5{,}0\,m$

$l_2: 17{,}00\,m$

$l_3: 14{,}60\,m$

$m = 630\,kg$

$F_{max}: 1{,}5 \cdot 10^3\,N$

$F_{E_1} = F_P \cdot \frac{h}{l} = 617{,}4\,N \cdot \frac{2{,}5\,m}{5{,}0\,m} =$

$= 308{,}7\,N$

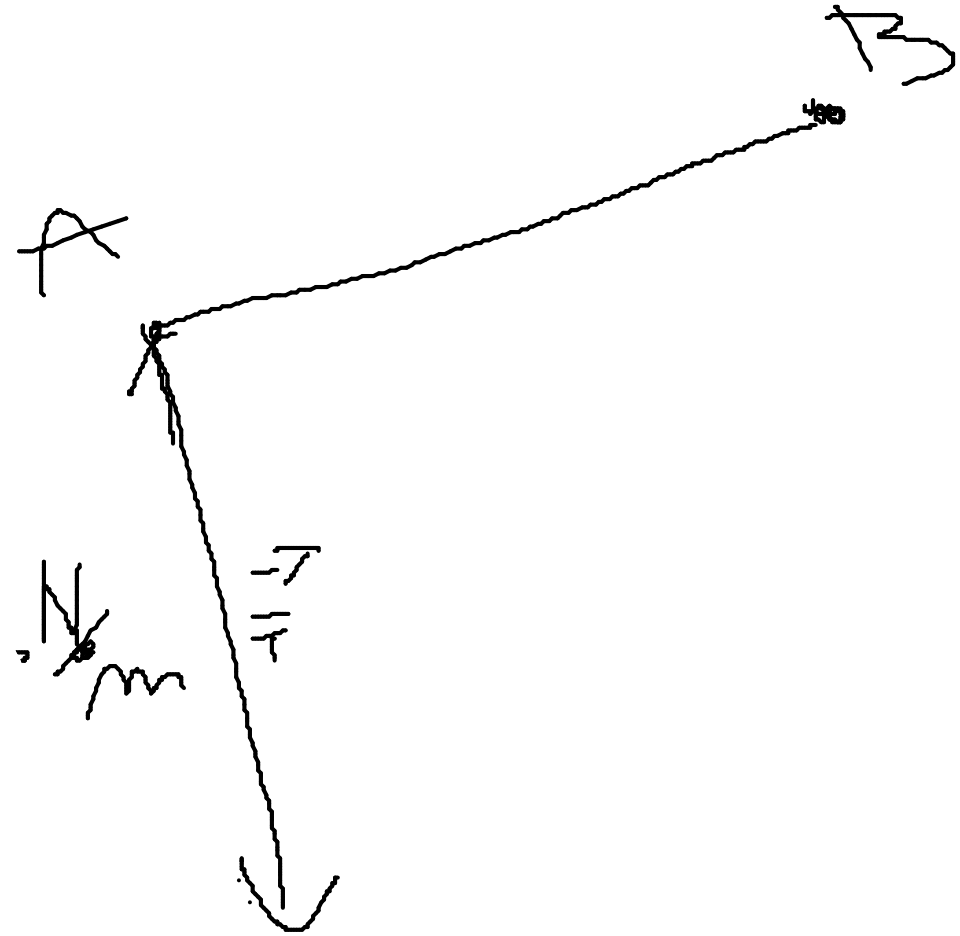
$F_{E_1} = 118\,N \quad F_{E_3} = 116\,N$

$F_P = 630\,kg \cdot 9{,}8\,\frac{N}{kg} = 617{,}4\,N$

$l = 120\ cm$

$F = 25\ N$

$M = F \times d = 25\ N \cdot 1{,}20\ m = 30\ N \cdot m$



$l_1 = 2{,}0\ m$

$F_1 = 10\ N$

$l_2 = 5{,}0\ m$

$F_2 = ?$

$M_1 = M_2$

$M = F \cdot d$

$F_1 \cdot l_1 = F_2 \cdot l_2$

$F_2 = \frac{F_1 \cdot l_1}{} = \frac{10\ N \cdot 2{,}0\ m}{} =$

$= 4\ N$ $\quad 5{,}0\ m$

$l_1 = 50\ mm$ $\qquad$ $l_2 = ?$

$F_1 = 17 F_2$

$F_1 \cdot l_1 = F_2 \cdot l_2$

$l_2 = \dfrac{F_1 \cdot l_1}{F_2} = \dfrac{17 F_2 \cdot l_1}{F_2} = 17 \cdot l_1 = 17 \cdot 50\ mm$

$= 850\ mm = 0{,}85\ cm$