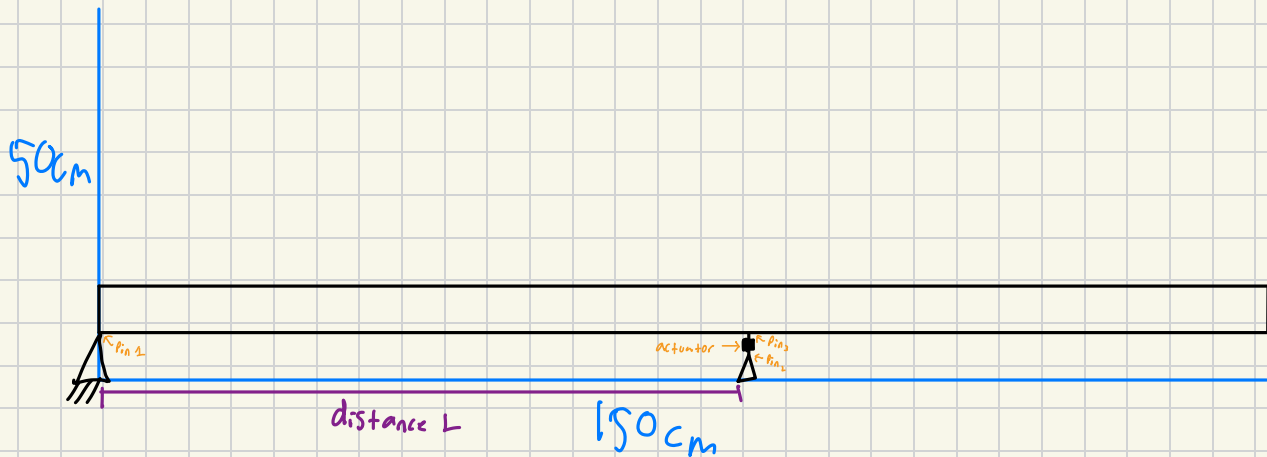
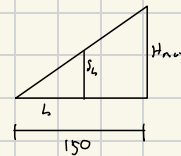


Port + folio

Use Actuator RSX Max force = 294 kN
Stroke length = 1.5m



decrease L to increase height lifted
increase L to increase weight lifted



$$\sum M_{P_{in1}} = L \cdot F_{actuator} - 150 \cdot F_w = 0$$

$$L \cdot F_{actuator} = 150 \cdot M_g$$

$$M_{max} = \frac{L}{150} \cdot F_{actuator}$$

$$\frac{SL}{L} = \frac{H_{max}}{150cm}$$

$$H_{max} = \frac{150cm \cdot 150cm}{L}$$

$L = 90cm$ because

any extra height would

be 1.5m seems excessive

and we still have an

actuator M_{max} of 999.806 kg