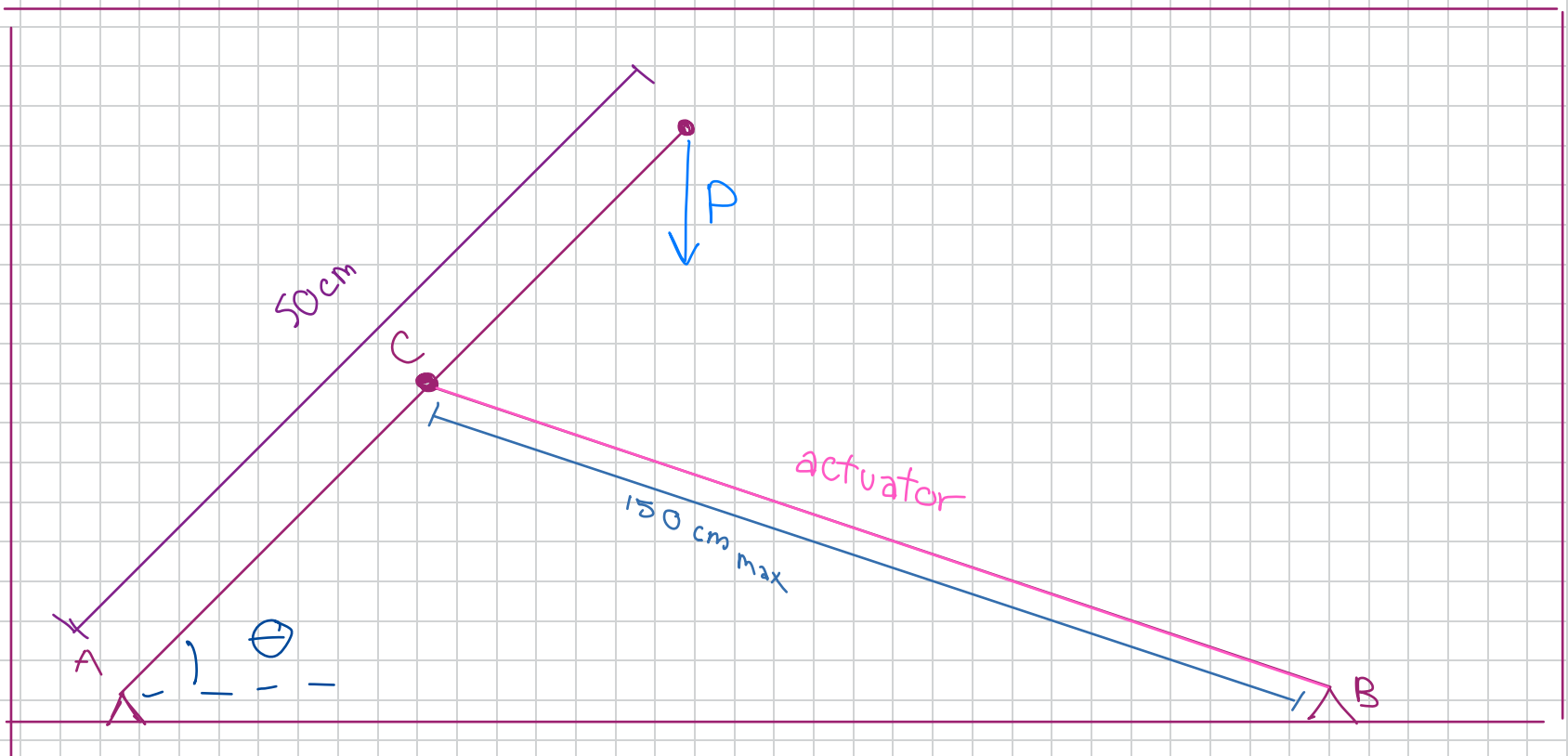
Portfolio Design Problem

Design space 50cm x 50 cm



model RSX 294kN max load

$$\Sigma \vec{M}_A = F_{BC}(.2498m) - PL\cos\theta$$

$$F_{BC}(.2498) = P\,L\cos\theta$$

$$P = \frac{294kN\,(.2494)}{.5m\,(50\cos\theta)}$$

P_{max} = 190kN , height 50cm