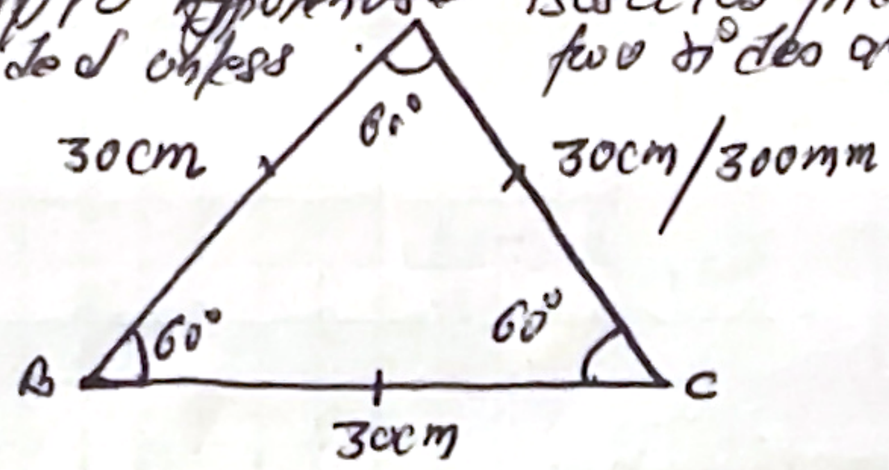
part #5: Continue from part #4:

Well, going with isosceles triangle, the hypotenuse turned out to be around 445mm or 44.5cm, which is longer than I anticipated. Additionally, due to 3D printer plate dimension constrain, material cost, DC motor torque/power constrain,

I decided to opt for equilateral triangle as mentioned below: Going equilateral triangle way give a control over the dimensions of all sides in contrast to ~~hypotenuse~~ isosceles triangle where hypotenuse side can't be decided unless two sides are chosen & vice versa.



The problem with equilateral triangle is it required 'T-lock' redesign as ~~per~~ 'T-lock' was originally design for isosceles triangle as the ~~angle~~ original 'T-Lock' is at 90°, where as in isosceles triangle, the angle has to be 60°.