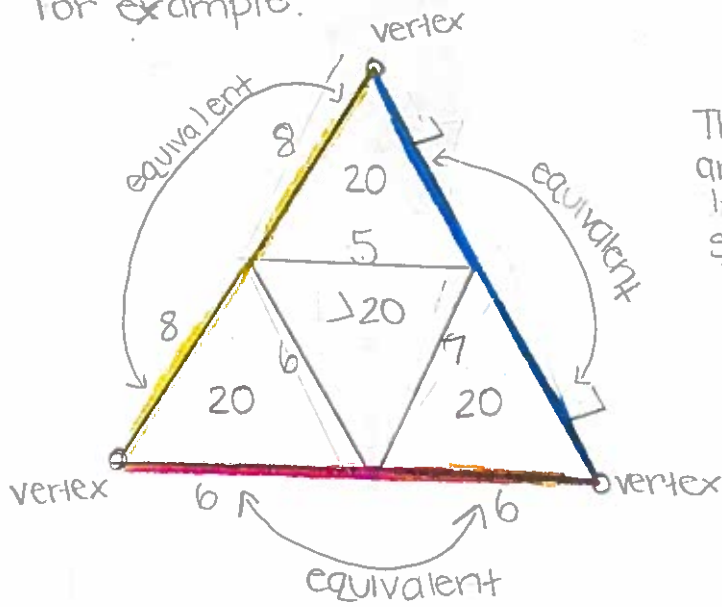


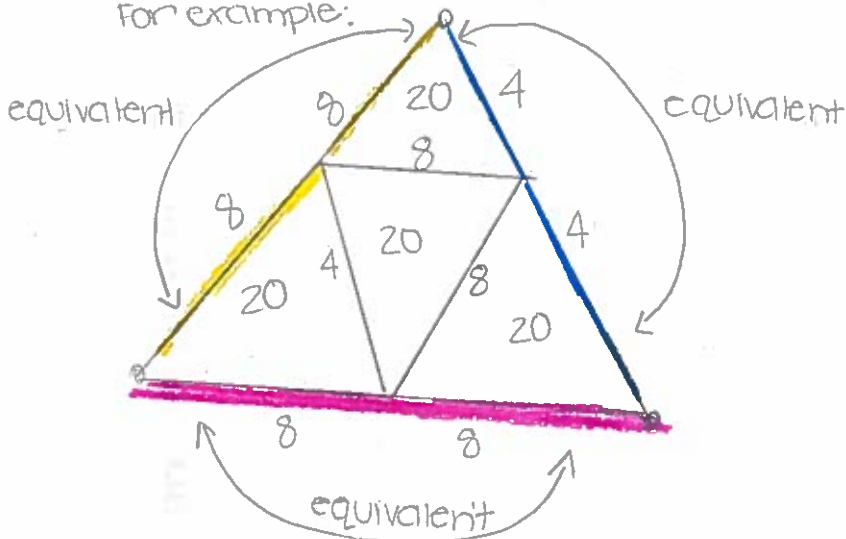
Challenge Question

- a) No, there cannot be an example where the triangles aren't congruent.
For example:



This occurs because all of the sides are equivalent (as shown with colours). If you are trying to get non-congruent sides you need each side to be different. Therefore, if you make different equations for each Δ , the middle triangle will never equal 20 (if not using congruent triangles).

- b) Yes, you can make more equations with congruent triangles.
For example:



This occurs because all of the sides are equivalent ^{and} that means that all of the sides (shown with colour) equal the same thing. Since the middle triangle is the same as the outer triangles, this equation works. _{then}

ETC...

