

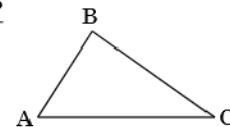
What is the minimum information needed to make two triangles congruent, thus two triangles that are the same size and same shape? Use the Dynamic Activity 4-2 and Illuminations activity <http://illuminations.nctm.org/Activity.aspx?id=3504> to help determine if the given information will form congruent triangles.

Dynamic Activity 4-2- Will this information form congruent triangles???

1. Given: two sides(SS)
2. Given: three sides(SSS)
3. Given: a side and an angle(SA)
4. Given: two sides and an included angle (SAS)
5. Given: two angles (AA)

Illuminations Activity Will this information form congruent triangles???

6. Given: $\angle A$, $\angle C$, $\angle B$ (AAA) three angles
7. Given: AB , $\angle A$, AC (SAS) two angles and an included side
8. Given: $\angle A$, AC , $\angle C$ (ASA) two angles and included side
9. Given: BC , AB , $\angle C$ (SSA) : two sides and angle not between the two sides
10. Given: $\angle A$, $\angle C$, BC (AAS) two angles and side not between the two angles



Now list all ways to prove
two triangles are congruent.