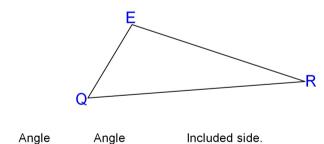
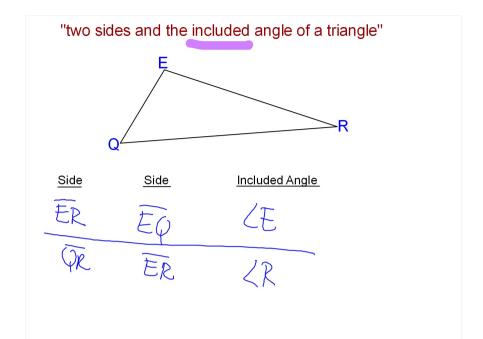
To prove two figures are congruent you must show:

- All pairs of corresponding sides are congruent **AND**
 - All pairs of corresponding angles are congruent

"two angles and the included side of a triangle"



<u>_</u> φ	LR	QR
Œ	Lφ	Ēφ



1. What sides include ∠B?

36

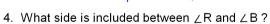
2. What angle is included between GR and RB?



3. What angles inclued $\overline{\mathsf{GB}}$?









Use a ruler and a protractor to create a triangle with the following characteristics:

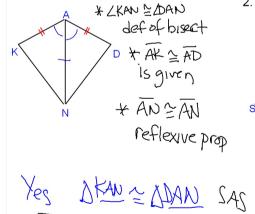
- One side is 15 cm long
- Another side is 9 cm long
- The included angle has a measure of 40°

After you've made your triangle compare it with other people's triangles.

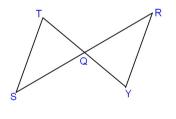
Everybody should have the same triangle.

Can you use SAS to prove each pair of triangle congruent? If yes, write a congruence statement.

1. AN bisects ∠KAD



2. RS and TY bisect each other.



Postulate 4-2

Side-Angle-Side (SAS) Postulate

If two sides and the included angle of one triangle are congruent to two sides and the included angle of another triangle, then the two triangles are congruent.

$$\triangle BCA \cong \triangle FDE$$

