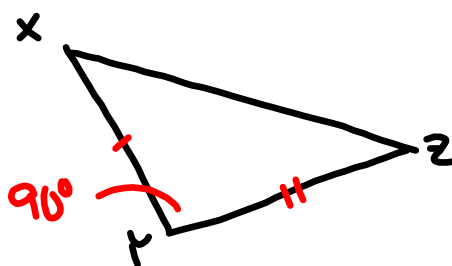
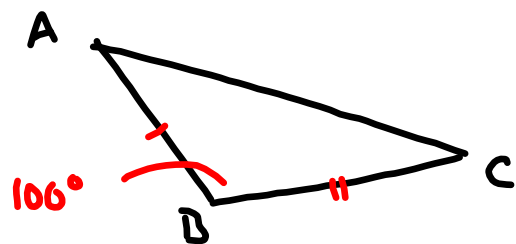


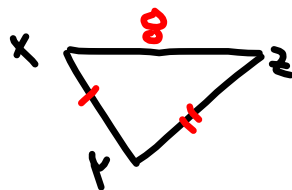
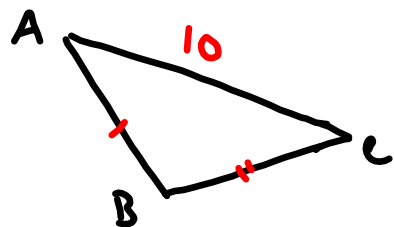
Section 5.7 Inequalities Involving Two Triangles

Obj: use SAS and SSS inequalities to find parts of triangles.



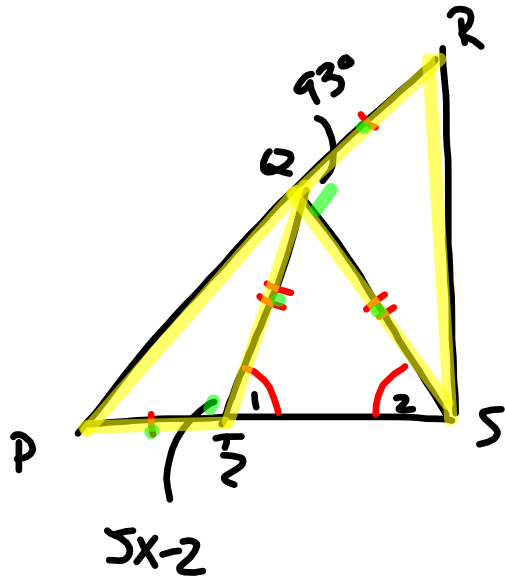
$$\overline{AC} > \overline{XZ}$$

If two sides of two triangles are congruent and the included angles are different, the larger included will have a larger third side.



What can I say about $\angle B$ compared to $\angle Y$?

$$\angle B > \angle Y$$



$$\angle 1 < \angle 2$$

$$PT \cong QR$$

$$PQ > SR$$

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$$5x - 2 > 93^\circ$$

$$5x > 95$$

$$\therefore x > 19$$

$$5x - 2 < 180^\circ$$

$$5x < 182$$

$$\therefore x < 36.4$$