

# 5.7 Applications of Congruent Triangles

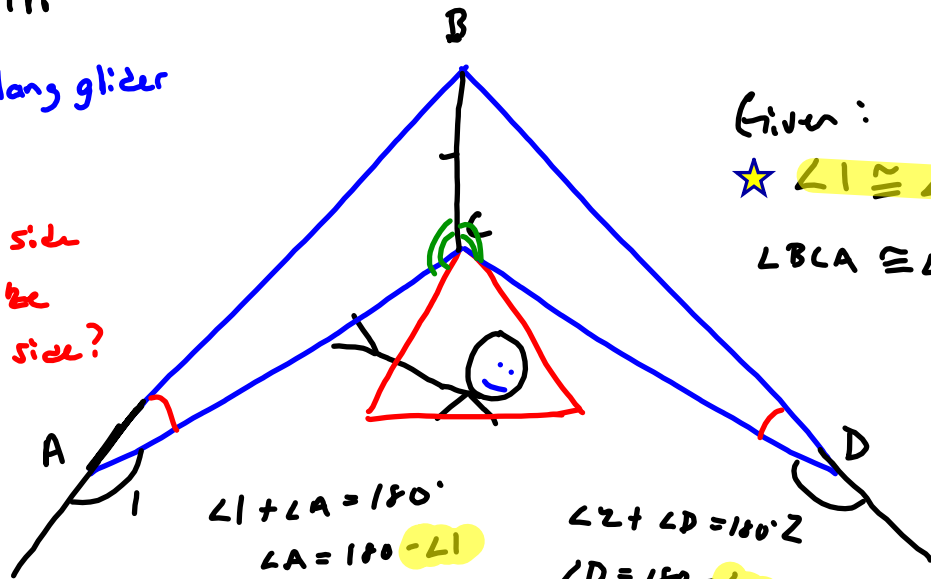
## Geometry 5.7

### Applications of congruent triangles.

is the Hang glider

Balanced?

Is the left side  
the same size  
as the right side?



Given:

★  $\angle 1 \cong \angle 2$

$\angle BCA \cong \angle BCD$

$\angle 1 + \angle A = 180^\circ$

$\angle A = 180 - \angle 1$

$\angle 2 + \angle D = 180^\circ$

$\angle D = 180 - \angle 2$

Additional Info...

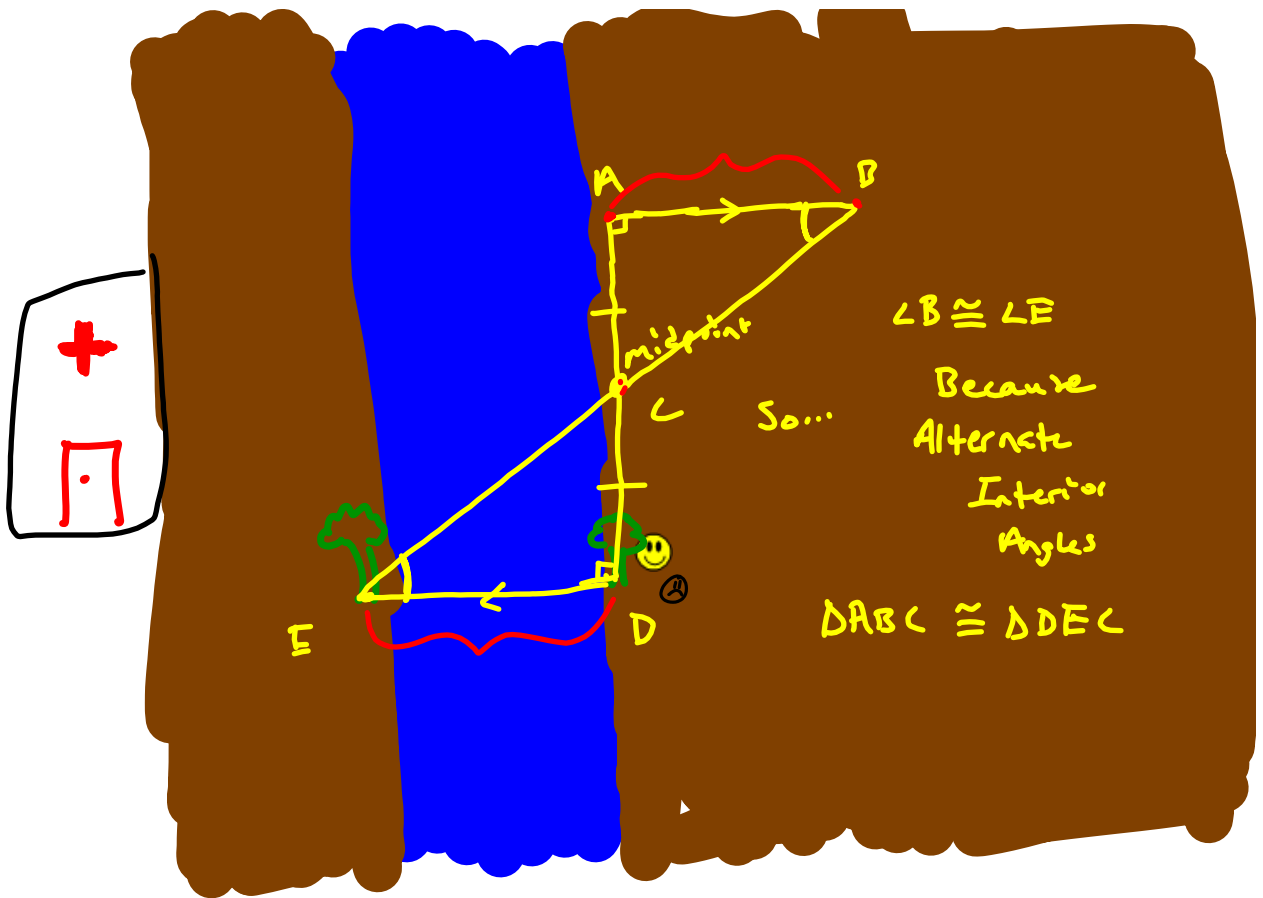
BC is a shared side on both  $\Delta$ 's

$\therefore \angle A \cong \angle D$

So...

$\triangle ABC \cong \triangle DBC$  by AAS

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This Homework is  
Just more of the same  
stuff we've been  
doing.