

# Corresponding Parts of Similar Figures

**Congruent**  
 \* Exactly the same size and shape



vs

**Similar**  
 Same shape but different size

- \* Corresponding angles must be the same or congruent
- \* Corresponding sides are proportionate.

Corresponding parts = matching lines and angles



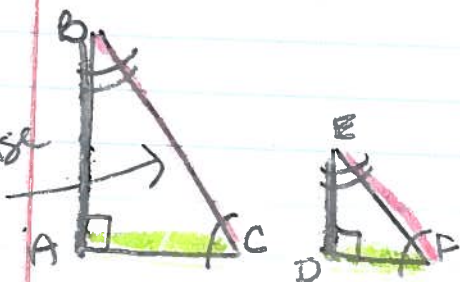
$\sim$  = similar

$$ABCD \sim EFGH$$

- $\overline{AB}$  corresponds to  $\overline{EF}$
- $\overline{AD}$  corresponds to  $\overline{EH}$
- $\overline{CD}$  corresponds to  $\overline{GH}$
- $\overline{BC}$  corresponds to  $\overline{FG}$

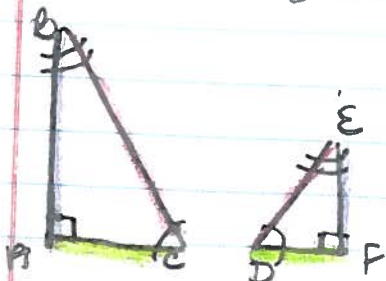
all angles are  $90^\circ$

Med  
 potense



$$\triangle ABC \sim \triangle DEF$$

- $\angle C$  corresponds to  $\angle F$
- $\angle A$  corresponds to  $\angle D$
- $\angle B$  corresponds to  $\angle E$



$$\triangle ABC \sim \triangle DEF$$

- $\angle A$  corresponds to  $\angle E$
- $\angle A$  corresponds to  $\angle D$
- $\overline{AB}$  corresponds to  $\overline{DE}$
- $\overline{BC}$  corresponds to  $\overline{EF}$