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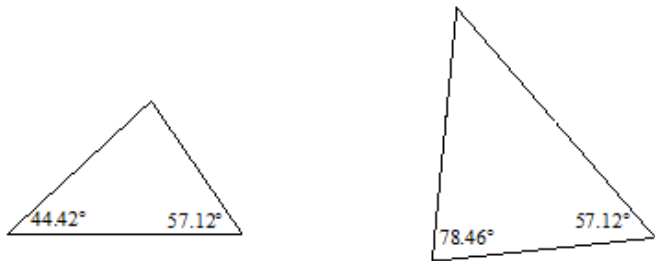
Date: _____

UNIT 5

LESSON 10

AIM: HOW DO WE PROVE TRIANGLES ARE SIMILAR USING AA (ANGLE-ANGLE)

Do Now: Are the following triangles similar? Explain.



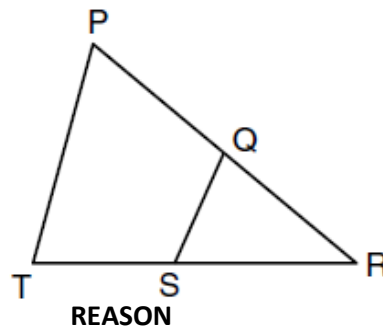
WHAT DO WE NEED IN ORDER FOR TWO TRIANGLES TO BE SIMILAR?

- _____ angles and _____ sides!
- Therefore, to prove triangles are similar is to prove two _____ are _____.
- We call this method _____!

EXAMPLE:

Given: Q is a point on \overline{PR} , S is a point on \overline{TR} , \overline{QS} is drawn
 $\angle RPT \cong \angle RQS$

Prove: $\triangle PRT \sim \triangle QRS$

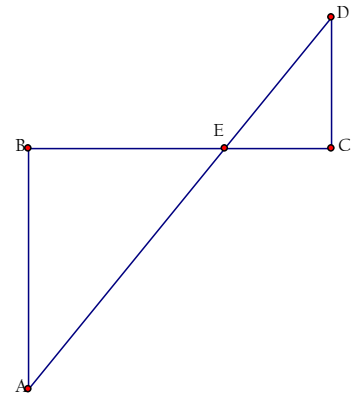


STATEMENT

REASON

STATEMENT	REASON

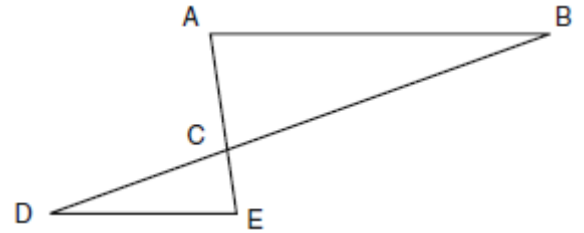
1. Given: $\overline{DC} \perp \overline{BC}$, $\overline{AB} \perp \overline{BC}$
 Prove: $\triangle ABE \sim \triangle DCE$



STATEMENT

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2. Given: \overline{AE} and \overline{BD} intersect at C, and $\overline{AB} \parallel \overline{ED}$
 Prove: $\triangle ABC \sim \triangle EDC$



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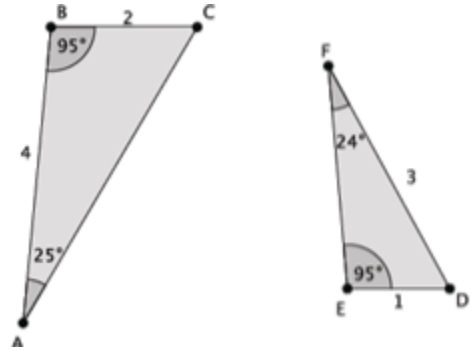
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UNIT 5

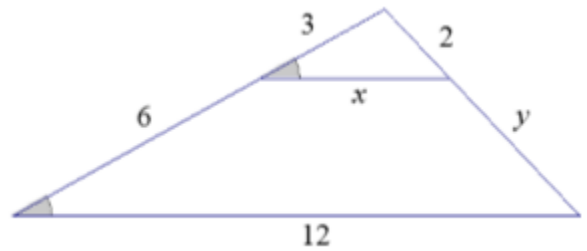
LESSON 10

HOMEWORK

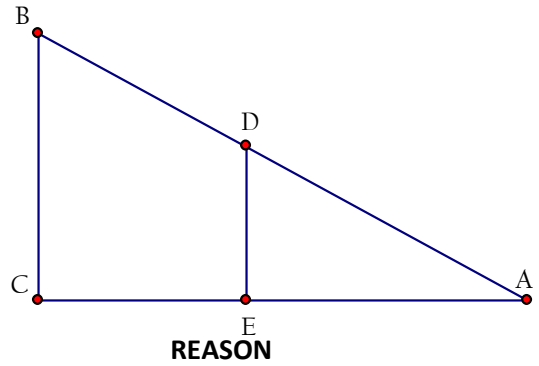
1. Are the following triangles similar? Explain!



2. If the triangles below are similar, find x and y



3. Given: In right triangle ABC , $\angle C = 90^\circ$, $\overline{DE} \perp \overline{AC}$
Prove: $\triangle ADE \sim \triangle ABC$



STATEMENT

REASON