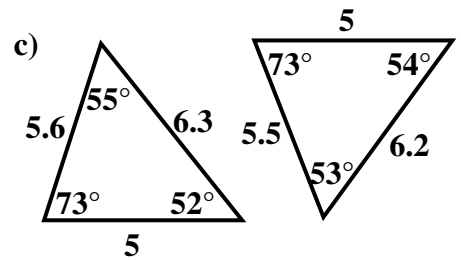
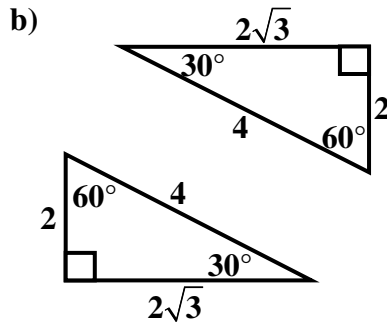
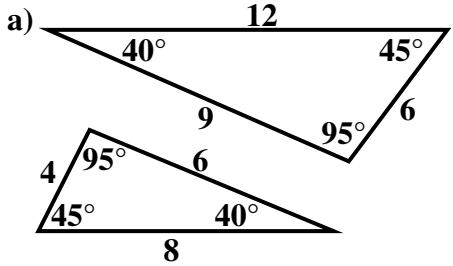


Section 6.6– Congruence and Similarity: What’s the difference?

<u>Congruence</u> Symbol: \cong		<u>Similarity</u> Symbol: \sim	
$\triangle ABC \cong \triangle DEF$		$\triangle ABC \sim \triangle DEF$	
Angles Congruent	Sides Congruent	Angles Congruent	Sides Proportional
$\angle A \cong \angle D$	$\overline{AB} \cong \overline{DE}$	$\angle A \cong \angle D$	$\frac{AB}{DE} = \frac{BC}{EF} = \frac{AC}{DF}$
$\angle B \cong \angle E$	$\overline{BC} \cong \overline{EF}$	$\angle B \cong \angle E$	
$\angle C \cong \angle F$	$\overline{AC} \cong \overline{DF}$	$\angle C \cong \angle F$	

Ex 1:

Determine if the triangles are congruent, similar, both, or neither.



If two similar triangles have a ratio of ___ to ___, then they are also _____.

Ex 2:

Determine if the statement is always, sometimes, or never true.

Note: Drawing diagrams can help you determine the correct answer.

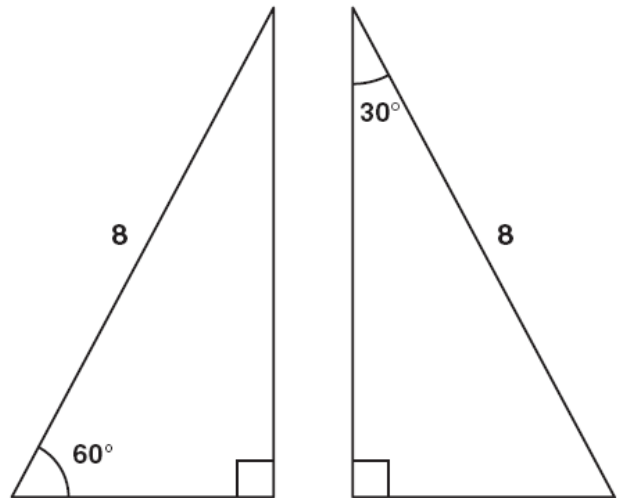
- a) If two triangles are similar, then they are congruent. b) If two triangles are congruent, then they are similar. c) If two triangles are congruent, then they are not similar.

Ex 3:

a) Which triangles must be similar?

- A two obtuse triangles
- B two scalene triangles with congruent bases
- C two right triangles
- D two isosceles triangles with congruent vertex angles

b) Which of the following best describes the triangles shown below?



- A both similar and congruent
- B similar but not congruent
- C congruent but not similar
- D neither similar nor congruent