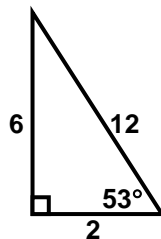
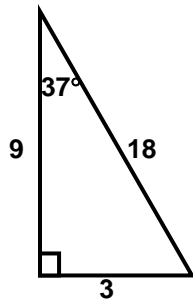


TOPIC 7-2: MORE SIMILAR POLYGONS

TERM	DEFINITION
SIMILAR POLYGONS	Polygons with the same shape but different sizes.

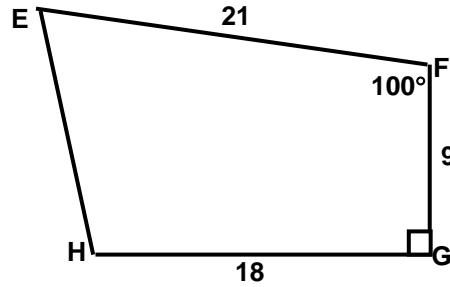
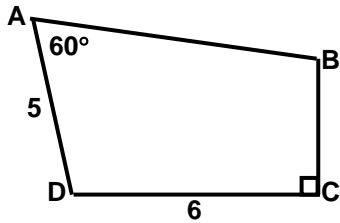
EXAMPLE 1 Determine if the figures are similar. Justify your answer.



The two figures _____ similar because

and _____.

EXAMPLE 4 Quad ABCD ~ Quad EFGH below.



a) Complete the following:

$$m\angle E = \underline{\hspace{2cm}}$$

$$m\angle G = \underline{\hspace{2cm}}$$

$$m\angle B = \underline{\hspace{2cm}}$$

$$m\angle H = \underline{\hspace{2cm}}$$

b) What is the common ratio of Quad ABCD to Quad EFGH? $\underline{\hspace{2cm}}$

c) Find the following:

$$EH = \underline{\hspace{2cm}}$$

$$BC = \underline{\hspace{2cm}}$$

$$AB = \underline{\hspace{2cm}}$$

EXAMPLE 5 The lengths of the sides of a triangle are in the ratio 3:5:7. Its perimeter is 120 cm. Find the length of the shortest side of the triangle.

EXAMPLE 6 The measures of the angles of a triangle are in the ratios 1:2:3. Find the measure of the largest angle.