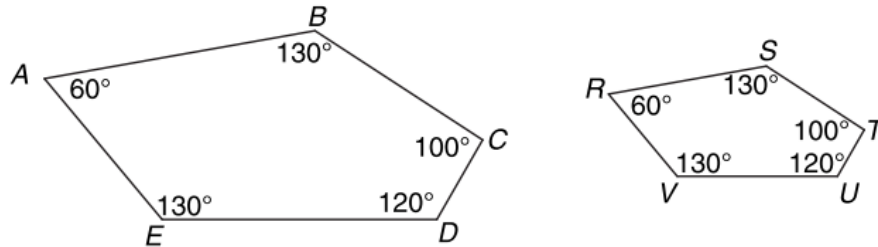


Lesson 8 Practice Questions – Lesson 1

Determining Similarity with Angles

- Are the corresponding angle measures in the polygons congruent?



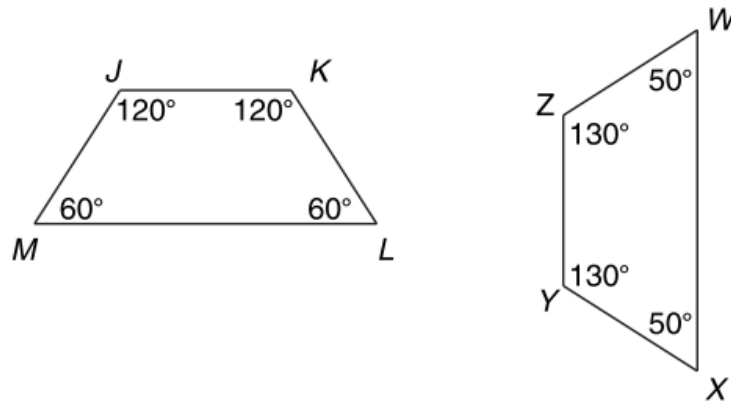
Solution:

List all the corresponding angles.

Relative Position	Angle in Polygon ABCDE	Corresponding angle in Polygon RSTUV
	$\angle A = 60^\circ$	$\angle R = 60^\circ$
	$\angle B = 130^\circ$	$\angle S = 130^\circ$
	$\angle C = 100^\circ$	$\angle T = 100^\circ$
	$\angle D = 120^\circ$	$\angle U = 120^\circ$
	$\angle E = 130^\circ$	$\angle V = 130^\circ$

Because all corresponding angle measures in the polygons are the same, the polygons could be similar. However, to confirm similarity, corresponding side ratios must be compared.

2. Are the corresponding angle measures in the polygons congruent?



Solution:

List all corresponding angles.

Relative Position	Angle in Polygon JKLM	Corresponding Angles in Polygon WXYZ
	$\angle J = 120^\circ$	$\angle Y = 130^\circ$
	$\angle K = 120^\circ$	$\angle Z = 130^\circ$
	$\angle L = 60^\circ$	$\angle W = 50^\circ$
	$\angle M = 60^\circ$	$\angle X = 50^\circ$

The corresponding angle measures in the polygons are not congruent.