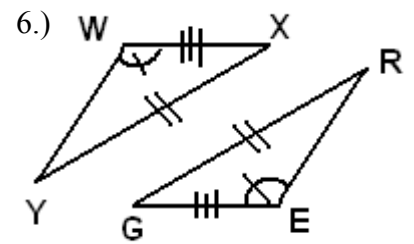
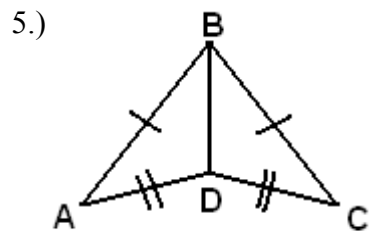
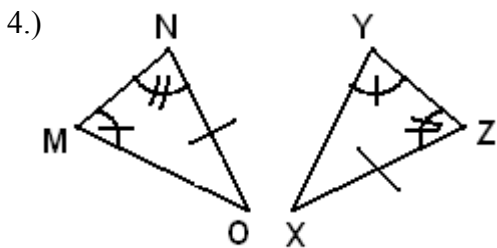
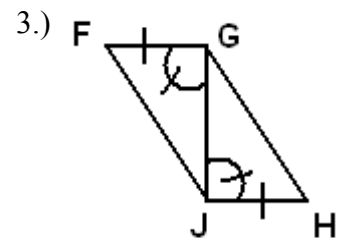
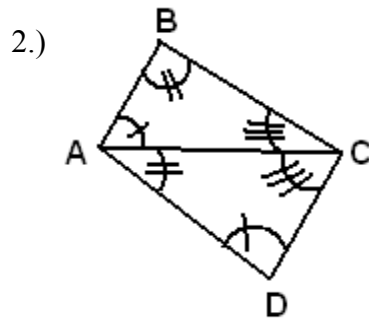
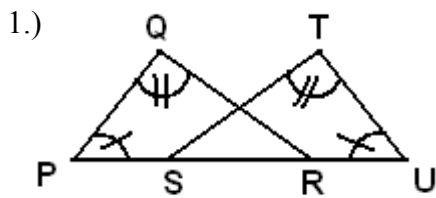


CP Geometry
Triangle Congruence

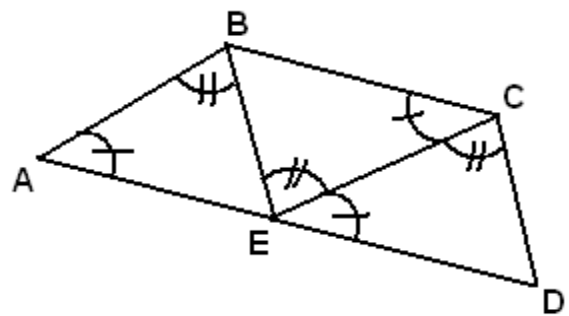
Name: _____

In Problems 1-6, is it possible to prove a pair of triangles congruent? If so, write a statement and name the reason you know it is true.



For Problems 7-9, examine the figure on the right.

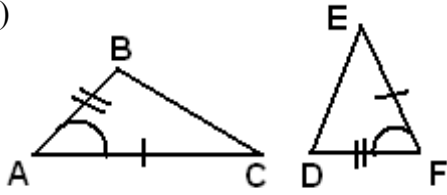
- 7.) $\triangle ABE$ is congruent to $\triangle CEB$ by ??
- 8.) $\triangle EDC$ is congruent to $\triangle CBE$ by ??
- 9.) $\triangle EDC$ is congruent to $\triangle AEB$ by ??



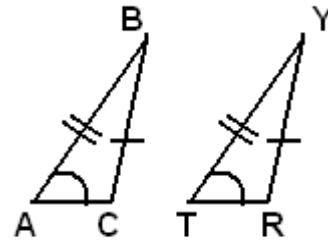
- 10.) Of the triangles described below, which two are congruent and how do you know you are correct?
 - (A) $\triangle XYZ$: $m\angle X = 40^\circ$, $XY = 9$ cm, and $m\angle Y = 30^\circ$
 - (B) $\triangle ABC$: $AB = 9$ cm, $m\angle B = 30^\circ$, and $m\angle A = 80^\circ$
 - (C) $\triangle KLM$: $m\angle L = 30^\circ$, $m\angle M = 110^\circ$, and $KL = 9$ cm

In Problems 1-8, are the triangles congruent? If so, write a correspondence and state why you are correct. (These are NOT drawn to scale.)

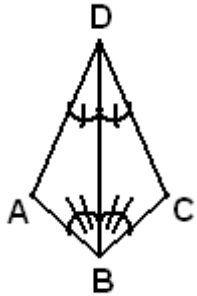
1.)



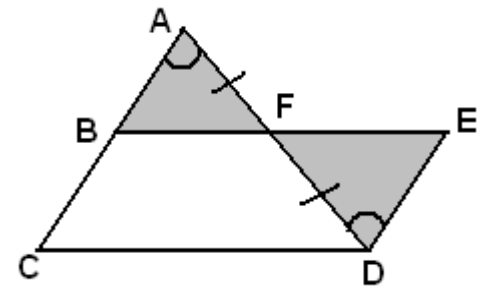
2.)



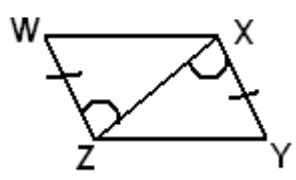
3.)



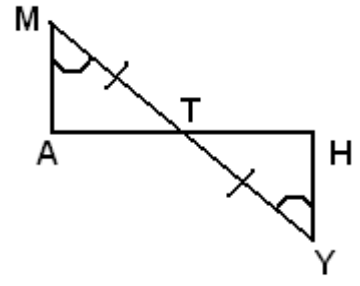
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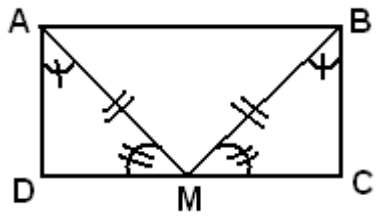
5.)



6.)



7.)



8.)

