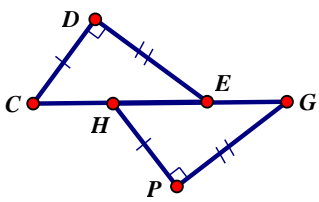
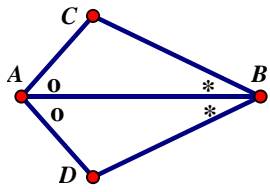
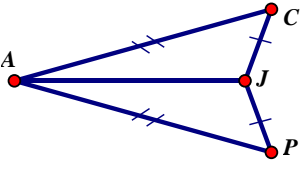
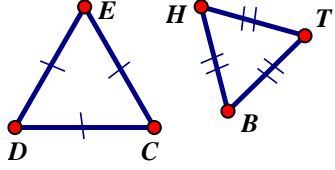
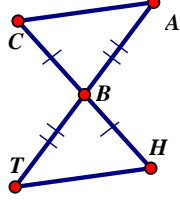
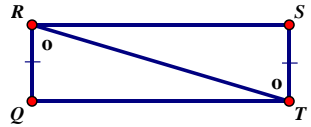
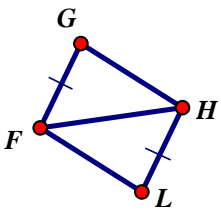
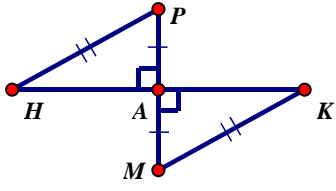
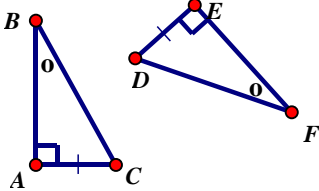
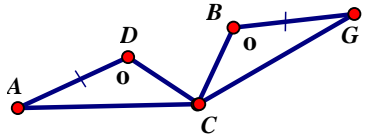
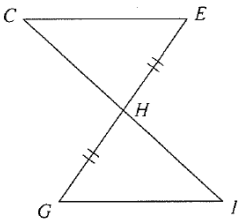


Are each of the pairs of triangles shown below congruent? If they are, explain why. If additional information can be known from the diagram, mark that information before deciding whether the triangles are congruent.

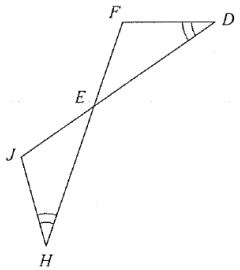
<p>1. $\triangle CDE \cong$ _____</p> <p>Shortcut: _____</p> <p>Additional Reason(s): _____ _____</p> 	<p>2. $\triangle ACB \cong$ _____</p> <p>Shortcut: _____</p> <p>Additional Reason(s): _____ _____</p> 
<p>3. $\triangle ACJ \cong$ _____</p> <p>Shortcut: _____</p> <p>Additional Reason(s): _____ _____</p> 	<p>4. $\triangle EDC \cong$ _____</p> <p>Shortcut: _____</p> <p>Additional Reason(s): _____ _____</p> 
<p>5. $\triangle CBA \cong$ _____</p> <p>Shortcut: _____</p> <p>Additional Reason(s): _____ _____</p> 	<p>6. $\triangle QRT \cong$ _____</p> <p>Shortcut: _____</p> <p>Additional Reason(s): _____ _____</p> 
<p>7. $\triangle FLH \cong$ _____</p> <p>Shortcut: _____</p> <p>Additional Reason(s): _____ _____</p> 	<p>8. $\triangle HAP \cong$ _____</p> <p>Shortcut: _____</p> <p>Additional Reason(s): _____ _____</p> 
<p>9. $\triangle BAC \cong$ _____</p> <p>Shortcut: _____</p> <p>Additional Reason(s): _____ _____</p> 	<p>10. $\triangle ADC \cong$ _____</p> <p>Shortcut: _____</p> <p>Additional Reason(s): _____ _____</p> 

For #11-14, if possible, mark any additional information already known to be congruent (from reflexive property, vertical angles, etc.). Then determine what additional information is still necessary in order to prove the triangles congruent using the shortcut stated. List those specific sides or angles in each box below.

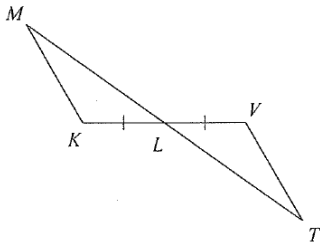
11. SAS



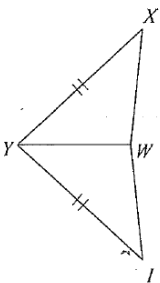
12. ASA



13. AAS



14. SSS



15. Given $\triangle ABC \cong \triangle DFE$, find the value of x and $m\angle F$.

