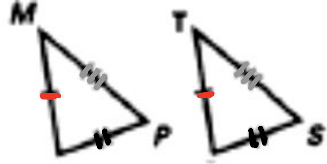
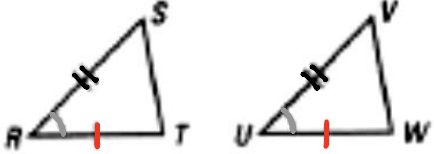
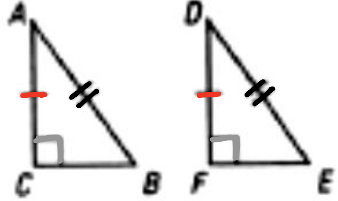
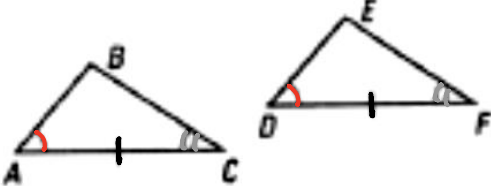
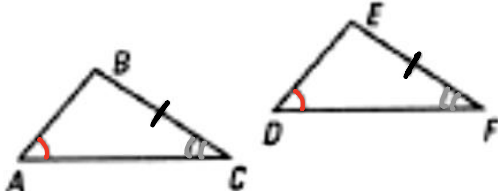



➤ There are 5 statements that will allow us to prove that 2 triangles are congruent:

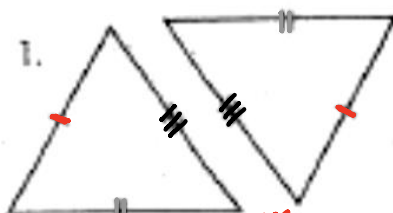
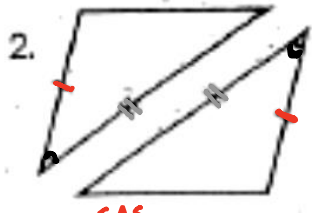
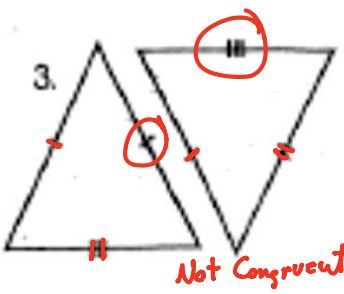
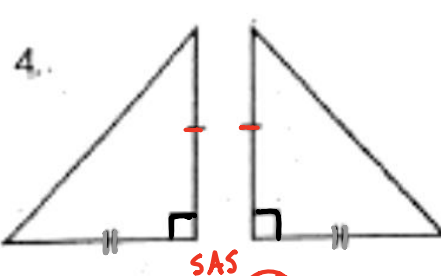
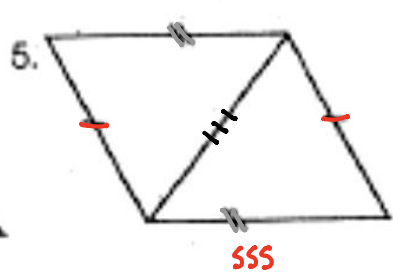
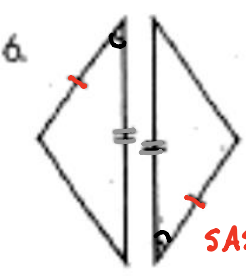
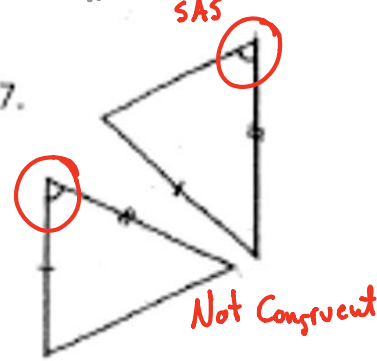

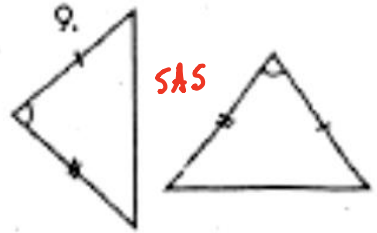
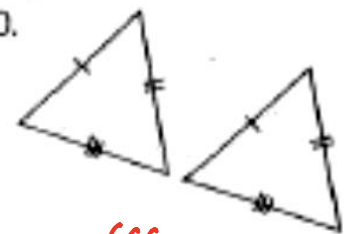
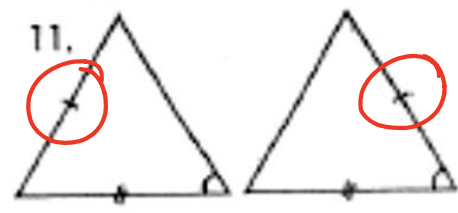
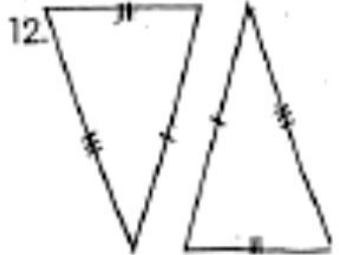
<p>Side Side Side Congruence SSS</p>	<p>3 pairs of corresponding congruent sides</p>	
<p>Side Angle Side Congruence SAS</p>	<p>2 pairs of corresponding congruent sides and a corresponding included congruent angle <i>↳ in between the two sides</i></p>	
<p>Hypotenuse Leg Congruence HL</p>	<p>Only for RIGHT TRIANGLES: Congruent hypotenuses and one pair of corresponding congruent sides</p>	
<p>Angle Side Angle Congruence ASA</p>	<p>2 pairs of corresponding congruent angles and the included corresponding side congruent <i>↳ in between the two angles</i></p>	
<p>Angle Angle Side Congruence AAS</p>	<p>2 pairs of corresponding congruent angles and 1 pair of corresponding nonincluded congruent sides</p>	
<p>FALSE SHORCUTS</p>	<p>Angle Angle Angle Side Side Angle Congruence AAA or SSA (ASS)</p>	

Congruent Triangles: SSS or SAS

SSS – Side, Side, Side (3 sides)

SAS – Side, Angle, Side (2 sides and the included angle)

State whether these pairs of triangles are congruent by SSS or SAS. If neither method works, write N.

<p>1.  SSS</p>	<p>2.  SAS</p>	<p>3.  Not Congruent</p>
<p>4.  SAS</p>	<p>5.  SSS</p>	<p>6.  SAS</p>
<p>7.  Not Congruent</p>	<p>8.  SSS</p>	<p>9.  SAS</p>
<p>10.  SSS</p>	<p>11.  Not Congruent</p>	<p>12.  SSS</p>

Congruent Triangles: ASA and AAS

ASA – Angle, Side, Angle (2 angles and the included side)

AAS – Angle, Angle, Side (2 angles and the non-included side)

State whether these pairs of triangles are congruent by SSS or SAS. If neither method works, write N.

1. **ASA**

2. **AAS**

3. **AAS**

4. **Not Congruent**

5. **AAS**

6. **ASA**

7. **AAS**

8. **AAS**

9. **ASA**

10. **Not Congruent**

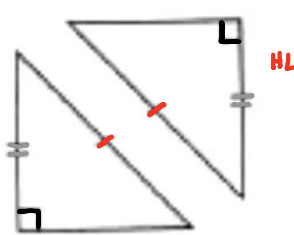
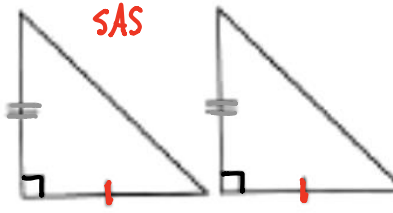
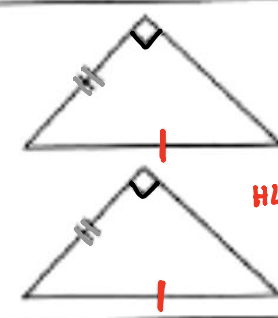
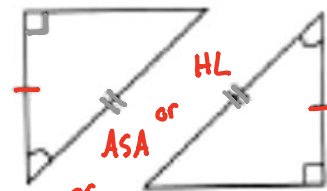
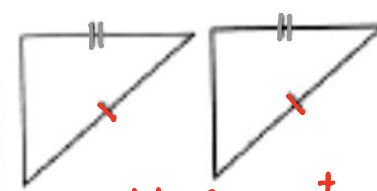
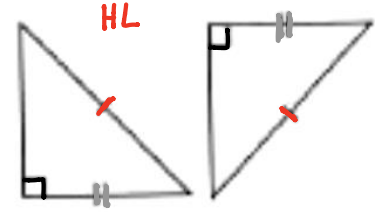
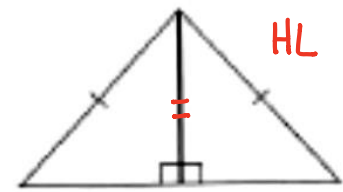
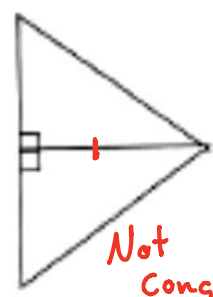
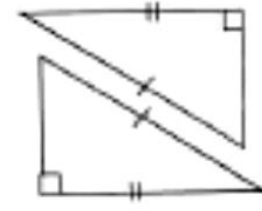
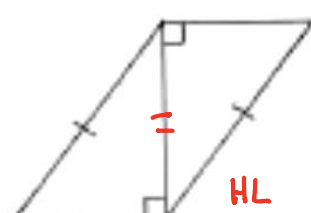

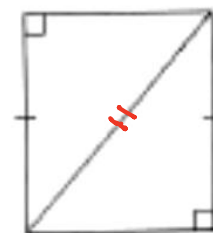
11. **Not Congruent**

12. **AAS**

Congruent Triangles: HL

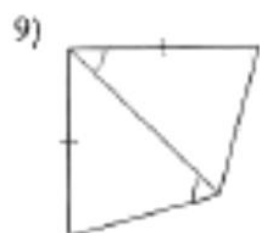
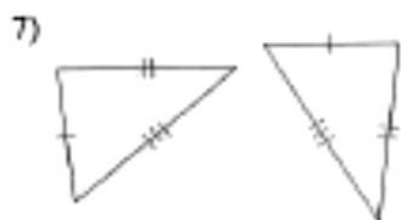
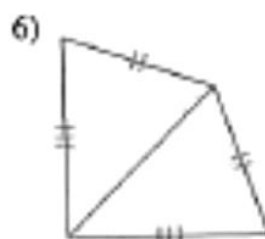
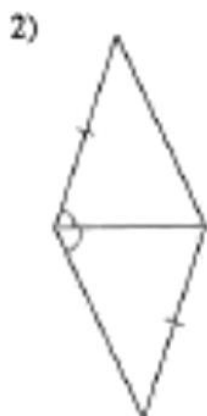
HL – Hypotenuse, Leg (Must be a right triangle)

State whether these pairs of triangles are congruent by HL. If this method does not work, write N.

<p>1.</p>  <p style="text-align: right; color: red;">HL</p>	<p>2.</p>  <p style="text-align: center; color: red;">SAS</p>	<p>3.</p>  <p style="text-align: right; color: red;">HL</p>
<p>4.</p>  <p style="text-align: center; color: red;">ASA or SAS</p> <p style="text-align: right; color: red;">HL</p>	<p>5.</p>  <p style="text-align: center; color: red;">Not Congruent</p>	<p>6.</p>  <p style="text-align: left; color: red;">HL</p>
<p>7.</p>  <p style="text-align: right; color: red;">HL</p>	<p>8.</p>  <p style="text-align: center; color: red;">Not Congruent</p>	<p>9.</p>  <p style="text-align: left; color: red;">HL</p>
<p>10.</p>  <p style="text-align: right; color: red;">HL</p>	<p>11.</p>  <p style="text-align: center; color: red;">Not Congruent</p>	<p>12.</p>  <p style="text-align: left; color: red;">HL</p>

Unit 4B Day 2 CW

State if the two triangles are congruent. If they are, state how you know.

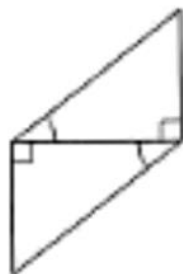


State if the two triangles are congruent. If they are, state how you know.

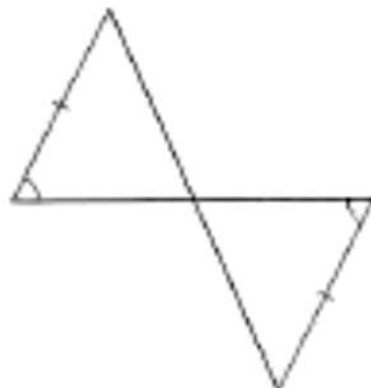
1)



2)



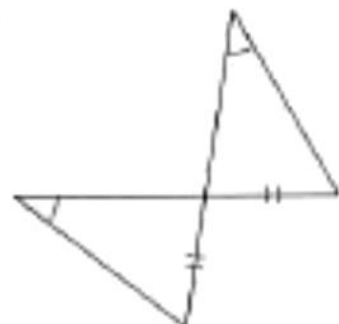
3)



4)



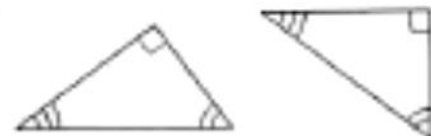
5)



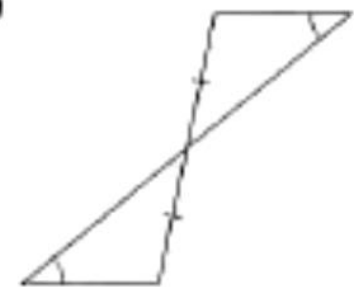
6)



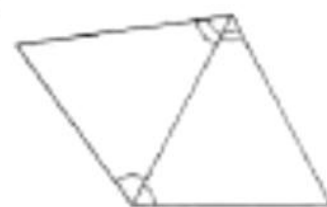
7)



8)



9)

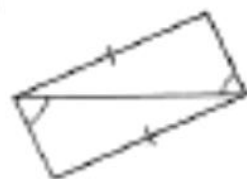


10)



State if the two triangles are congruent. If they are, state how you know.

1)



2)



3)



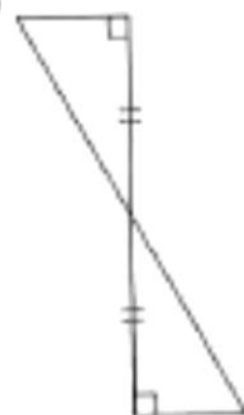
4)



5)



6)



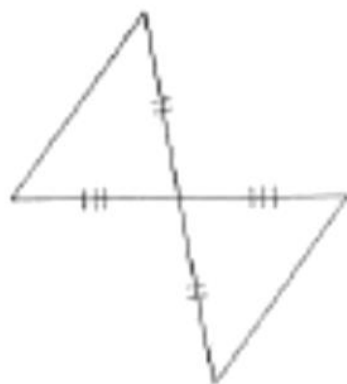
7)



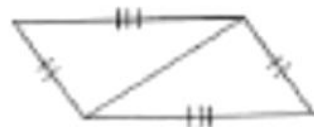
8)



9)

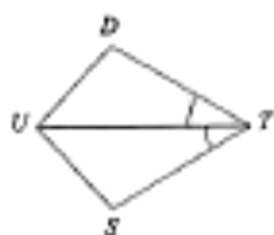


10)



State what additional information is required in order to know that the triangles are congruent for the reason given.

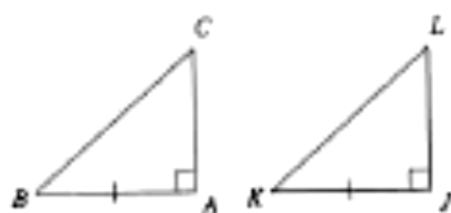
11) ASA



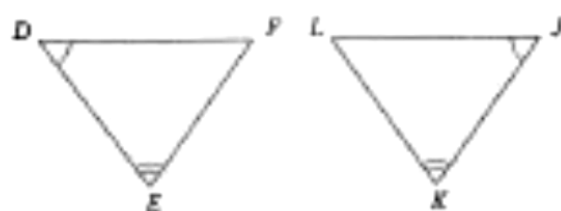
12) SAS



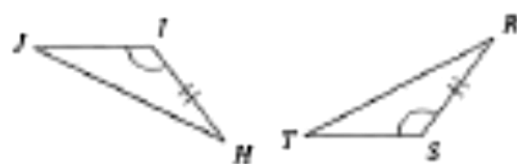
13) SAS



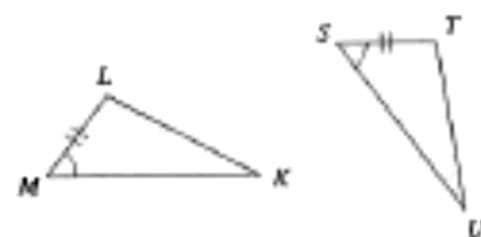
14) ASA



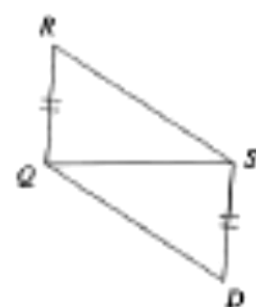
15) SAS



16) ASA



17) SSS



18) SAS

