
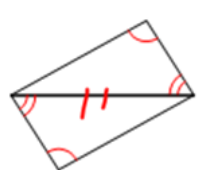


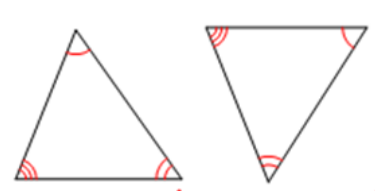


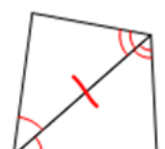


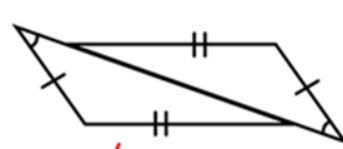

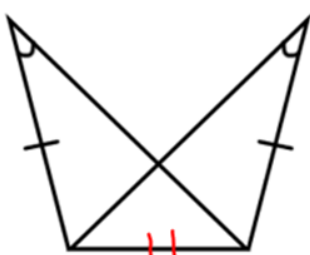
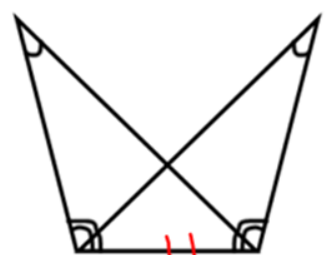
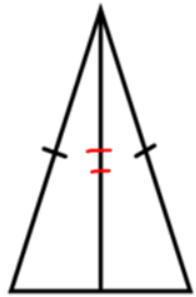


4.3 PRACTICE

State if the two triangles are congruent. If they are, state why.

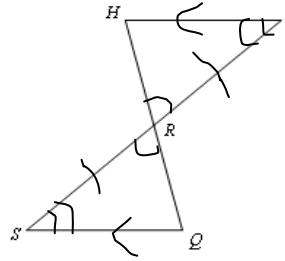
<p>1.</p>  <p style="color: red; font-size: 1.2em;">SAS</p>	<p>2.</p>  <p style="color: red; font-size: 1.2em;">AAS</p>	<p>3.</p>  <p style="color: red; font-size: 1.2em;">AAS</p>
<p>4.</p>  <p style="color: red; font-size: 1.2em;">SSS</p>	<p>5.</p>  <p style="color: red; font-size: 1.2em;">NO! AAA</p>	<p>6.</p>  <p style="color: red; font-size: 1.2em;">ASA</p>
<p>7.</p>  <p style="color: red; font-size: 1.2em;">SAS \neq SSA X NO!</p>	<p>8.</p>  <p style="color: red; font-size: 1.2em;">ASA</p>	<p>9.</p>  <p style="color: red; font-size: 1.2em;">AAS</p>
<p>10.</p>  <p style="color: red; font-size: 1.2em;">SAS</p>	<p>11.</p>  <p style="color: red; font-size: 1.2em;">NO! ASS</p>	<p>12.</p>  <p style="color: red; font-size: 1.2em;">ASA</p>
<p>13.</p>  <p style="color: red; font-size: 1.2em;">NO! ASS</p>	<p>14.</p>  <p style="color: red; font-size: 1.2em;">AAS</p>	<p>15.</p>  <p style="color: red; font-size: 1.2em;">NO! X</p>

Mark the picture. Answer the question. Prove it.

16.

Given: R is the midpoint of \overline{SI}
 $\overline{HI} \parallel \overline{SQ}$

Prove: $\triangle RQS \cong \triangle RHI$



WHY ARE THE TWO TRIANGLES CONGRUENT? I did **ASA** but you could do AAS as well
(NOTE: THE STEPS CAN BE IN A DIFFERENT ORDER!)

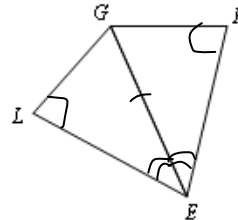
STATEMENTS	REASONS
1. R is the midpoint of \overline{SI} $\overline{HI} \parallel \overline{SQ}$	1. Given
2. $\overline{SR} \cong \overline{RI}$	2. Definition of Midpoint
3. $\angle HRI \cong \angle SRQ$	3. Vertical Angles are congruent
4. $\angle S \cong \angle I$	4. Alternate Interior Angles are congruent
5. $\triangle RQS \cong \triangle RHI$	5. ASA

Mark the picture. Answer the question. Prove it.

17.

Given: \overline{GE} is the angle bisector of $\angle LEF$
 $\angle L \cong \angle F$

Prove: $\triangle LEG \cong \triangle FEG$



WHY ARE THE TWO TRIANGLES CONGRUENT? **AAS**

STATEMENTS	REASONS
1. \overline{GE} is the angle bisector of $\angle LEF$ $\angle L \cong \angle F$	1. Given
2. $\angle LEF \cong \angle FEG$	2. Definition of Angle Bisector
3. $\overline{GE} \cong \overline{GE}$	3. Reflexive Property
4. $\triangle LEG \cong \triangle FEG$	4. AAS