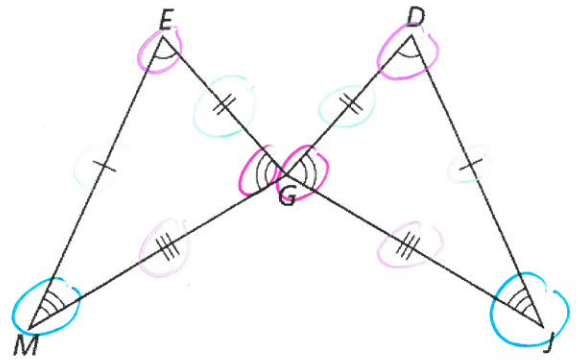


Use the picture to write all 6 congruence statements for all 6 congruent parts.

SIDES

ANGLES

1. $\overline{EM} \cong \overline{DJ}$
2. $\overline{EG} \cong \overline{DG}$
3. $\overline{MG} \cong \overline{JG}$
4. $\angle MEG \cong \angle JEG$
5. $\angle EMG \cong \angle DJG$
6. $\angle EGM \cong \angle DGJ$
7. $\triangle EGM \cong \triangle DGJ$



In problems 8-13 below, determine if the two triangles are congruent with the given information.

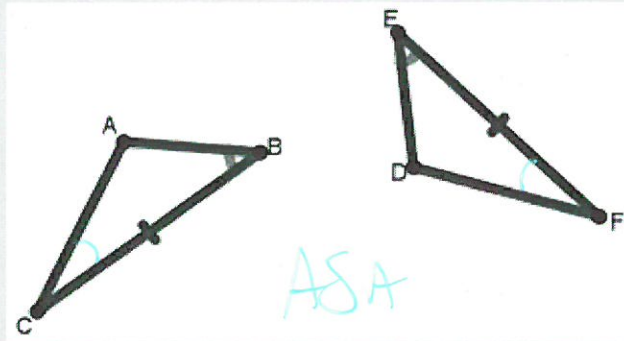
- a) Write the TRIANGLE CONGRUENCY STATEMENT ($\triangle \underline{\hspace{1cm}} \cong \triangle \underline{\hspace{1cm}}$).
- b) Write the POSTULATE or THEOREM that proves.

<p>8.</p> <p>a. $\triangle ABC \cong \triangle DEF$</p> <p>b. <u>SSS</u></p>	<p>9.</p> <p>a. $\triangle ADE \cong \triangle DBS$</p> <p>b. <u>ASA</u></p>	<p>10.</p> <p>a. $\triangle ABC \cong \triangle DBC$</p> <p>b. <u>ASA</u></p>
<p>11.</p> <p>not congruent</p>	<p>12.</p> <p>not congruent</p>	<p>13.</p> <p>$\triangle ABC \cong \triangle DEF$</p> <p>ASA</p>

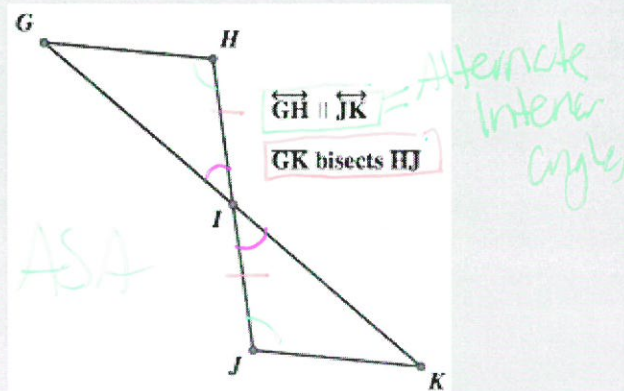
Triangle Congruence Review

Name: _____ Block _____

In the figure below, mark one more pair of corresponding parts of the two triangles that will ensure that the two triangles are congruent. State how you know the two triangles are congruent.



In the figure below, can you conclude that $\triangle GHI \cong \triangle JKI$? Explain why or why not.



Suppose you knew that the hypotenuse of two right triangles were congruent. Are the two triangles necessarily congruent? Explain why they are or give an example to show that they are not.

JMU Pivotal Items for Geometry

no, you also need a leg to be congruent
~~for~~ because of hypotenuse leg theorem