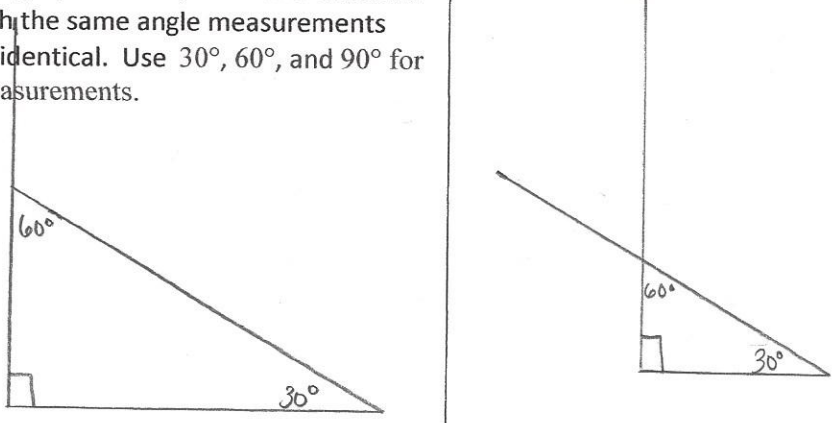
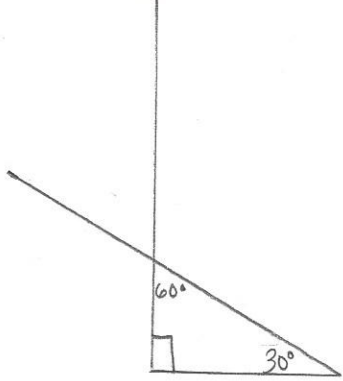
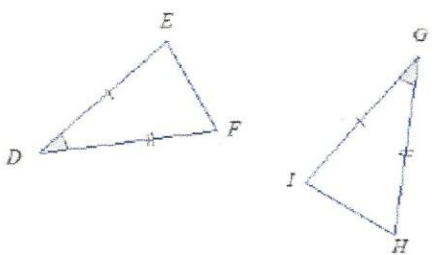
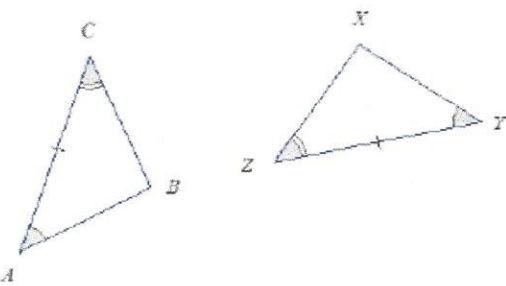
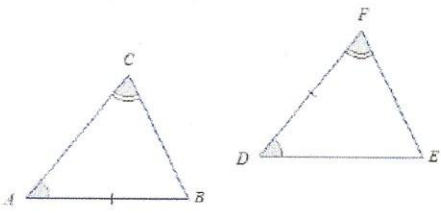


QUIZ B – GEOMETRY AFTER LESSON 13

PROBLEM	SHOW WORK (if applicable) AND STATE ANSWER HERE	FEED-BACK	SCORE (POINTS EARNED)
<p>1. Show that AAA does not determine a unique triangle. Using a protractor, draw two different triangles with the same angle measurements that are not identical. Use 30°, 60°, and 90° for the angle measurements.</p> 	<p>YOU MAY USE THE SPACE UNDERNEATH THE PROBLEM AS WELL.</p> 	<p>YES NO</p>	<p>0 points – Blank OR completely incorrect.          1 point – Incomplete but some correct work.          2 points – Complete work but with errors.          3 points – Complete work with no errors.</p>
<p>2. The two triangles below are identical because of <del>ASA</del>. Write the triangle correspondence.          SAS</p> 	<p><math>\triangle DEF \leftrightarrow \triangle \underline{G I H}</math></p>	<p>YES NO</p>	<p>0 points – Incorrect.          2 points – Correct.</p>
<p>3. Based on the information provided in the diagrams, can you tell if the two triangles are identical? Explain your answer.</p> <ul style="list-style-type: none"> <li>Determine the set of conditions shown in each triangle.</li> <li>If they are the same, identify the corresponding vertices.</li> <li>Check that all of the indicated corresponding angles and sides are equal in measure.</li> </ul> 	<p>ASA          ASA  <math>A \leftrightarrow Y, B \leftrightarrow X, C \leftrightarrow Z</math>  <math>m\angle A = m\angle Y</math>  <math>AC = YZ</math>  <math>m\angle C = m\angle Z</math>          Yes. The triangles are identical. They both show ASA and the indicated corresponding angle and side are equal in measure.</p>	<p>YES NO</p>	<p>0 points – Blank OR completely incorrect.          1 point – Incorrect answer, incomplete but some correct work OR correct answer and no work.          1.5 points – Correct answer, incomplete but some correct work.          2 points – Complete work and answer but with errors.          3 points – Complete work and answer with no errors.</p>

<p>4. Based on the information provided in the diagrams, can you tell if the two triangles are identical? Explain your answer.</p> <ul style="list-style-type: none"> <li>Determine the set of conditions shown in each triangle.</li> <li>If they are the same, identify the corresponding vertices.</li> <li>Check that all of the indicated corresponding angles and sides are equal in measure.</li> </ul> 	<p>AAS ASA</p> <p>No, I cannot tell if the triangles are identical because one triangle shows AAS and the other shows ASA.</p>	<p>0 points – Blank OR completely incorrect.</p> <p>1 point – Incorrect answer, incomplete but some correct work OR correct answer and no work.</p> <p>1.5 points – Correct answer, incomplete but some correct work.</p> <p>2 points – Complete work and answer but with errors.</p> <p>3 points – Complete work and answer with no errors.</p>
<p>5. Is it possible to draw a triangle with angle measurements <math>25^\circ</math>, <math>55^\circ</math>, and <math>105^\circ</math>? Explain your answer without drawing a triangle.</p>	<p><math>25 + 55 + 105 = 185</math></p> <p>No, it is not possible. The sum of the interior angles of a triangle must be <math>180^\circ</math>.</p>	<p>0 points – Blank OR completely incorrect.</p> <p>1 point – Incorrect answer, incomplete but some correct work OR correct answer and no work.</p> <p>1.5 points – Correct answer, incomplete but some correct work.</p> <p>2 points – Complete work and answer but with errors.</p> <p>3 points – Complete work and answer with no errors.</p>
<p>6. Is it possible to construct a triangle with the following three side lengths: 4 cm, 5 cm and 11 cm? Explain your answer without drawing.</p>	<p><math>11 + 5 &gt; 4</math>   <math>11 - 5 &gt; 4</math></p> <p><math>16 &gt; 4 &gt; 6</math></p> <p>↑ NOT TRUE</p> <p>No, it is not possible because one of the sides is not greater than the difference of the other two sides.</p>	<p>0 points – Blank OR completely incorrect.</p> <p>1 point – Incorrect answer, incomplete but some correct work OR correct answer and no work.</p> <p>1.5 points – Correct answer, incomplete but some correct work.</p> <p>2 points – Complete work and answer but with errors.</p> <p>3 points – Complete work and answer with no errors.</p>
<p>TOTAL POINTS EARNED (TPE)</p>		<p><u>17</u> + 3 bonus</p>
<p>TOTAL POSSIBLE POINTS (TPP)</p>		<p>20</p>
<p>QUIZ GRADE (AS A PERCENT)</p>		<p>100%</p>