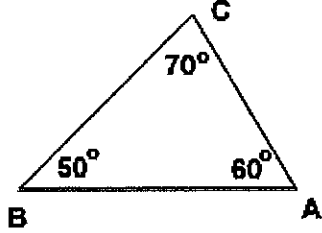
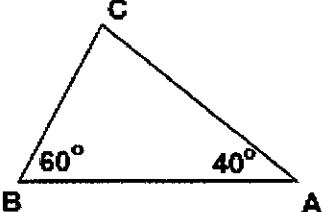
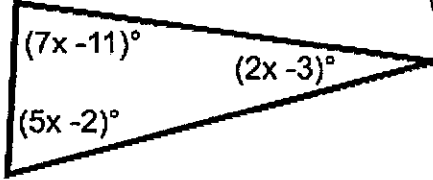
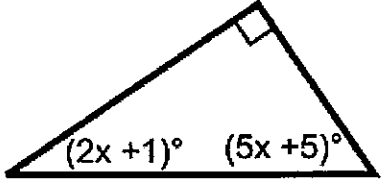


Take home Quiz #6

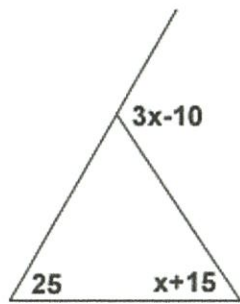
Due: _____
Must show all work to get full credit!

* There is NO pythagorean Theorem on this take home * NO: $a^2 + b^2 = c^2$ *

<p>1) How many degrees make up the inside of a triangle? 2</p>	<p>2) What type of triangle is pictured below? (Classify) 2</p> 
<p>3) Solve for the missing angle in the triangle below. 3</p> 	<p>4) In triangle ABC, the measure of angle A is 46° and angle C is a right angle. What is the measure of angle B? 3</p>
<p>5) Which three angles below could form a triangle? 2</p> <p>a) 90°, 90°, and 32° b) 20°, 94°, and 100° c) 76°, 63°, and 41° d) 32°, 102°, and 42°</p>	<p>6) Which of the following statements is true about an equilateral triangle? 2</p> <p>a) All three sides are congruent b) There is one 90° angle c) one angle is an obtuse angle d) Only two sides are congruent.</p>
<p>7) Solve for x: 5</p> 	<p>8) Solve for x 5</p> 

9) Solve for x:

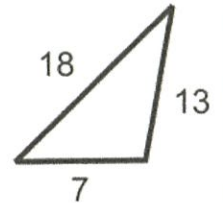
[5]



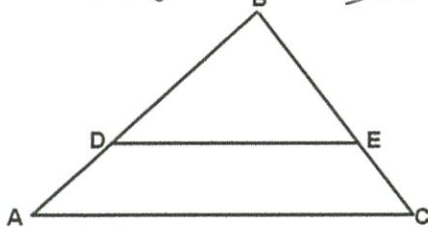
10) Find the measure of the vertex angle of an isoscles triangle if the base angle is equal to 50° [4]

11) A building 10 ft high casts a shadow 5 ft long. How tall is a tree that casts a 3 ft shadow? [4]

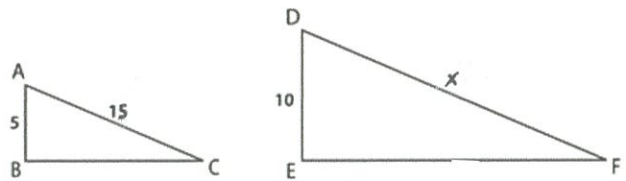
12) Could the following numbers represent the three sides of a triangle? You must show all work to get full credit. Hint: The sum of the 2 smaller sides must be larger than the 3rd [3]



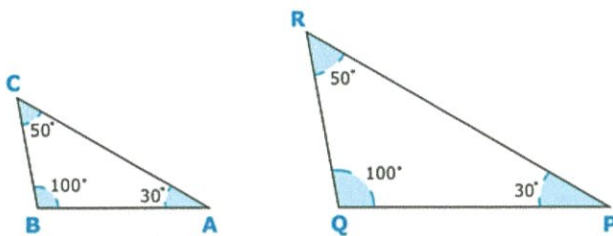
13) \overline{BD} is 6, \overline{BE} is 4, \overline{BA} is 12, find the length of \overline{BC} . Hint: make the big triangle into 2 triangles [4]



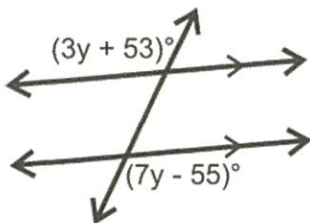
14) The two triangles below are similar. Find the length of \overline{DF} . [4]



15) Are the two figures below similar? Explain why or why not. (Must be sentence we used in class) [4]



16) Solve for y [4]



17) Solve for x [4]

