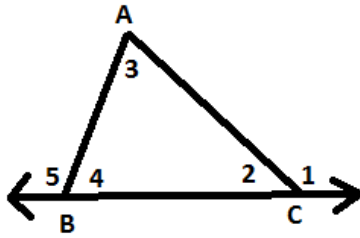
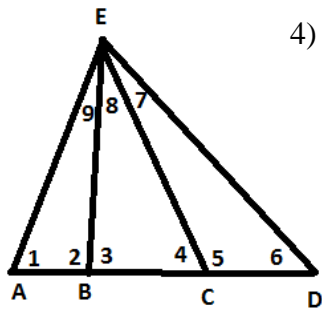


Name: _____
 Date: _____
 Class: _____

Geometry
 Unit 3
 HW 3-7



- 1) If $m\angle 5 = 112^\circ$ list a range of possible values for $m\angle 3$.
- 2) If $m\angle 1 = 134^\circ$ and $m\angle 4 = 3x + 7$, create and solve an inequality for x .
- 3) If $m\angle 1 = 10x - 2$, $m\angle 3 = 4x + 4$, and $m\angle 4 = 5x + 8$, find $m\angle 5$

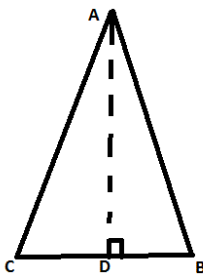


4) Explain which 4 angles that you can prove $\angle 5$ is larger than.

5) Explain 2 angles that you can prove are larger than $\angle 1$.

6) The hypotenuse of a right triangle is $x + 7$ and the legs are $x + 4$ and $x + 1$. Find the area of this triangle.

7)



If the perimeter of triangle ABC is 44in and $BC = 20$ find $m\angle DAB$.

8) Find the height of an equilateral triangle that has a perimeter of 36 feet.

9) If a bird flies from one to another tree which are 10 feet apart. The bird then turns and flies to another tree that are 24 feet apart. The bird then turns and flies back to the first tree traveling 30 feet. What type of triangle do these 3 trees form?