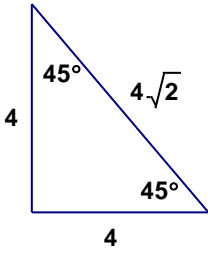
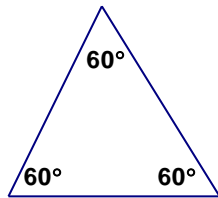


# 4-1 Classifying Triangles

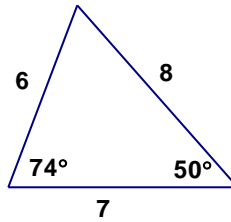
Triangle A



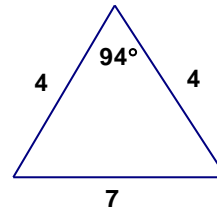
Triangle B



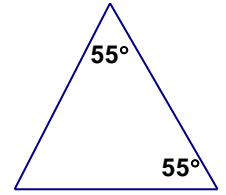
Triangle C



Triangle D



Triangle E



List all triangles (there may be more than 1 or none at all) above that are

1. Scalene \_\_\_\_\_

2. Acute \_\_\_\_\_

3. Obtuse \_\_\_\_\_

4. Right \_\_\_\_\_

5. Isosceles \_\_\_\_\_

6. Equilateral \_\_\_\_\_

# 4-2 Congruent Triangles

- \_\_\_\_\_ 1. Let the following be true:  $\triangle ABC \cong \triangle XYZ$ ,  $AB = 8$ ,  $BC = 10$ ,  $AC = 11$ .  
If  $XY = 2n$ , what is the value of  $n$ ?
- \_\_\_\_\_ 2. If  $\triangle ABC \cong \triangle XYZ$ , which of the following must be true?  
A.  $\angle A = \angle Z$       B.  $AC = XY$       C.  $XZ = BC$       D. None of the above
- \_\_\_\_\_ 3. If  $\triangle RST \cong \triangle HIJ$ ,  $\angle R = 97^\circ$ ,  $\angle J = 37^\circ$ , and  $\angle S = 4x + 14$ , what is the value of  $x$ ?
- \_\_\_\_\_ 4. If  $\triangle ABC \cong \triangle XYZ$ ,  $\angle A = 40^\circ$ ,  $\angle C = 80^\circ$ , what is the measurement of  $\angle X$ ?
- \_\_\_\_\_ 5. If  $\triangle ABC \cong \triangle ERT$  with  $AB = 10$ ,  $BC = 13$ ,  $\angle A = 39^\circ$ , and  $\angle R = 88^\circ$ , what is  $RT$ ?  
A.  $39^\circ$       B.  $88^\circ$       C. 10      D. 13

