## Review: Lines and Angles

Notes: Identify each type of triangle by its angles and by its sides

By

sides: 

By

sides: 

By

sides: 

By

sides: 

By

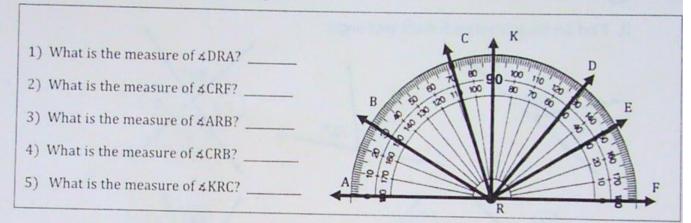
sides: 

By

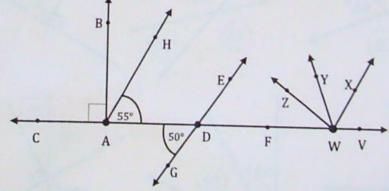
angles: 

Bob tuse

Part 1: Find the measure of the angles below.



Use the following diagram for questions 6 - 14.

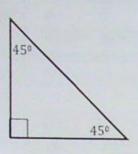


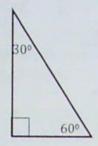
13) What is the measure of 4CAD?
nd
14) Which angles are adjacent to ≰EDA?
and

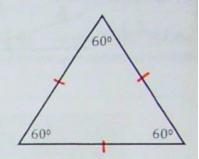
### Interior Angles of a Triangle

FACT: The three interior angles of a triangle always add up to 180°.

#### Example 1:



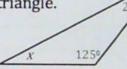




$$45^{\circ} + 45^{\circ} + 90^{\circ} = 180^{\circ}$$
  $30^{\circ} + 60^{\circ} + 90^{\circ} = 180^{\circ}$   $60^{\circ} + 60^{\circ} + 60^{\circ} = 3(60) = 180^{\circ}$ 

#### Example 2:

Find the missing angle in the triangle.



#### Solution:

$$20^{\circ} + 125^{\circ} + \times = 180$$

$$145 + x = 180^{\circ}$$

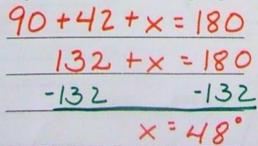
$$\begin{array}{r}
 145^{\circ} + x = 180^{\circ} \\
 -145 & -145
 \end{array}$$

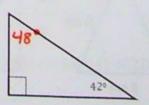
$$x = 35$$

Step 5: Use solution to answer the original question.

The missing angle is

#### Example 3: Find the missing angle in the triangle.





# Independent Practice

Find the missing angle in the triangles. For each problem, show an equation and solve.

