~~ Unit 8, Page 12 ~~ Review: Lines and Angles Notes: Identify each type of triangle by its angles and by its sides sides: Scalen angles: \_\ Part 1: Find the measure of the angles below. K 1) What is the measure of 4DRA? 129 2) What is the measure of 4CRF? 109 3) What is the measure of 4ARB? 30 4) What is the measure of 4CRB? \_\_ 5) What is the measure of 4KRC? \_ 90-70 Use the following diagram for questions 6 - 14. 6) Which angle is supplementary angle to ≰EDF? ∠EDA or ∠FDG 7) What is the measure of 4GDF? 8) Which two angles are right angles? ABAC and ABAD 9) What is the measure of 4EDF? 50° 14) Which angles are adjacent to ∡EDA? ⊌ 10) Which angle is adjacent to ∡BAD? ▲BAC LEDF and LADG 11) Which angle is a complementary angle to ∡HAD? <u>∠BA</u>H 12) What is the measure of 4HAB?

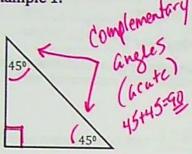
Notes

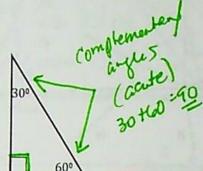
~~ Unit 8, Page 14 ~~

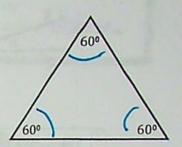
## The Interior Angles of a Triangle

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

Example 1:



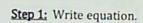




$$60^{\circ} + 60^{\circ} + 60^{\circ} = 3(\underline{60}) = \underline{180}$$

 $\frac{45^{\circ} + 45^{\circ} + 90}{90 + 90} = 180^{\circ} \quad 30^{\circ} + 60^{\circ} + 90 = 180^{\circ} \quad 60^{\circ} + 60^{\circ} + 60^{\circ} = 3(60) = 180^{\circ}$ Example 2: Find the missing angle in the triangle.

Solution:



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

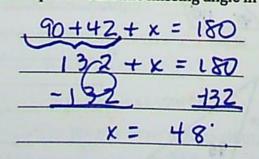
Step 2: Combine like terms. 
$$145 + x = 180^{\circ}$$

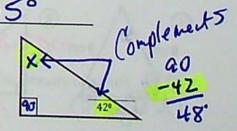
$$1450 + x = 1800$$

Step 5: Use solution to answer the original question.

The measure of the missing angle is \_\_\_\_\_

Example 3: Find the missing angle in the triangle.





The measure of the missing angle is:

~~ Unit 8, Page 15 ~ (ASSIGNMENT)

HELP BELOW!

## Independent Practice

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

