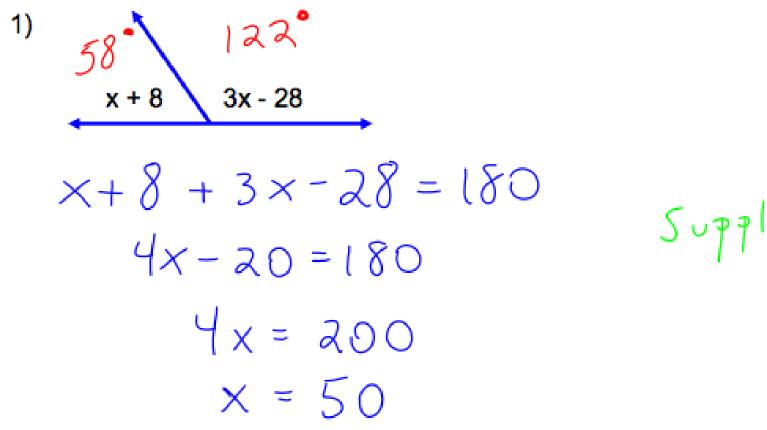
Chapter 11-1 to 11-3 Review

Find the value of x, the measure of each angle, and classify the pairs of angles.



Supplementary

2) One complementary angle is 6 more than twice the other. Find both angles.

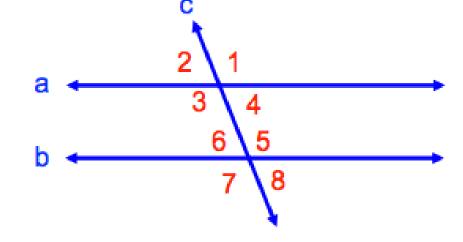
$$21 = x$$
 $21 = 2x + 6$
 $21 = 28^{\circ}$
 $21 = 28^{\circ}$

3) Use the diagram to answer the following:

Given information:

Line a and line b are parallel lines.

Line c is a transversal line.



a) Classify angles 1 and 3.

Vertical angles

b) Classify angles 4 and 6.

Alternate interior angles

c) Classify angles 2 and 8.

Alternate exterior angles

d) Identify one pair of corresponding angles.

Angles 1 and 5, 2 and 6, 3 and 7, or 4 and 8.

e) If angle 3 is 110°, how large is angle 8? EXPLAIN. 70°. Angles 2 and 3 are supplemental. Then angles 2 and 8 are alternate exterior angles. 4) The measures of the angles of Triangle XYZ are in the ratio 1:3:5.
What are the measures of each angle? Classify the triangle.

$$|x + 3x + 5x = 180$$

$$9x = 180$$

$$X = 20$$

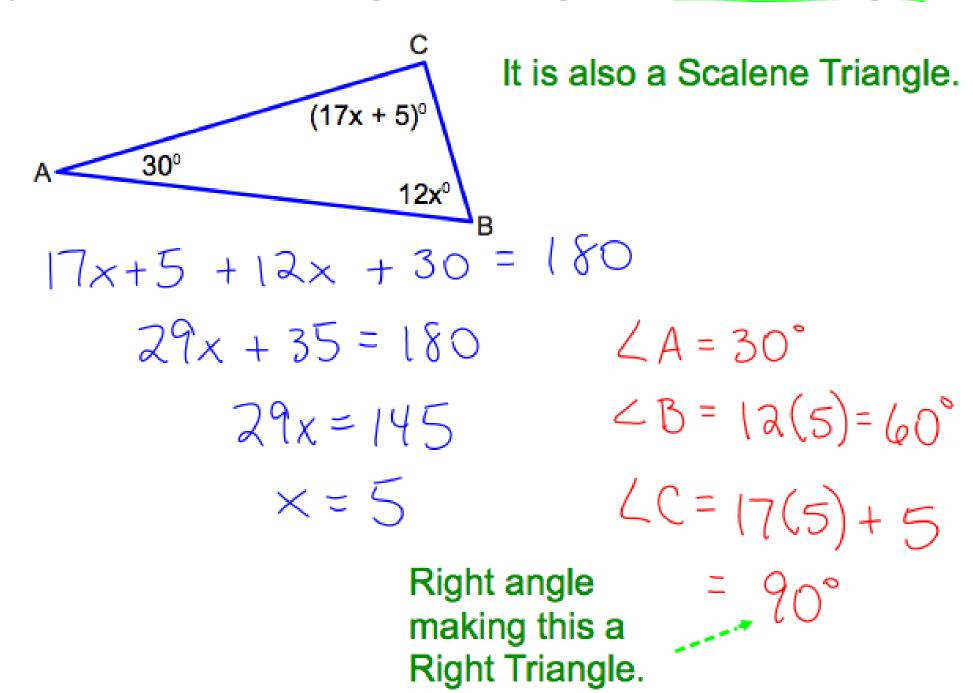
$$2x = x = 20^{\circ}$$

$$2y = 3x = 60^{\circ}$$

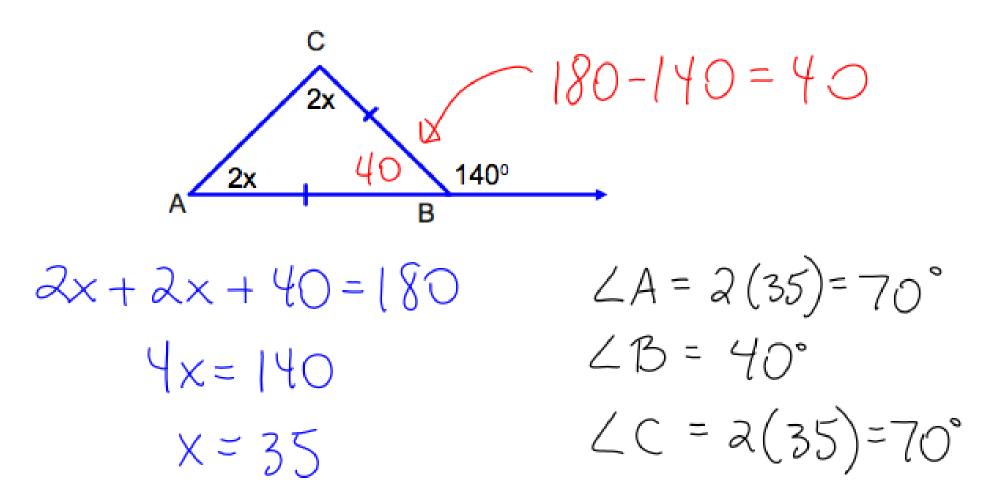
$$2z = 5x = 100^{\circ}$$
Obtuse angle, making this an Obtuse Triangle.

It is also a Scalene Triangle.

5) Find the measures of the angles in the triangle; then classify the triangle.



Find the measures of the angles in the triangle; then classify the triangle.



All are acute angles making this an Acute Triangle.

It is also an Isosceles Triangle.