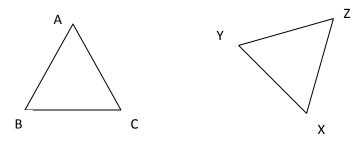
Algebra 2 Unit: Geometry Section: Geometry of Triangles

Review Worksheet Key

1) Triangle ABC is congruent to triangle XYZ.



a. The measure of angle B is 42 degrees and the measure of angle C is 39 degrees. The measure of angle Y is 5a + 10 degrees. Find the value of a.

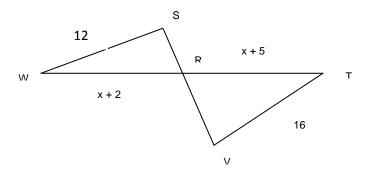
5a + 10 = 42 a = 6.4

b. The measure of angle C is 10b + 12 degrees. The measure of angle X is 22 degrees and the measure of angle Y is 48 degrees. Find the value of b.

10b + 12 + 22 + 48 = 180 b = 9.8

c. Side AC equals 3c – 40. Side XY equals 100 and side XZ equals 102. Find the value of c.

3c - 40 = 102c = 47.33 2. Triangles WSR and TVR are similar.



a. Find the value of x.

 $\frac{x+2}{x+5} = \frac{12}{16}$ 16x + 32 = 12x + 60 4x = 28 x = 7

b. Angle S measures 88 degrees. Angle SRW measures 48 degrees. Angle T measure 2b + 6 degrees. Find the value of b.

88 + 48 + 2b + 6 = 180 b = 19