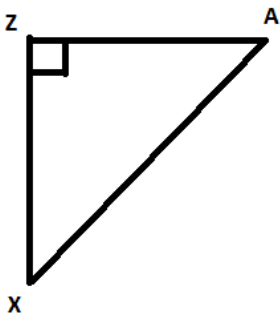


Name: _____
Date: _____
Class: _____

Geometry
Unit 3
HW 3-6

1)



If $ZX = a - 4$, $AX = a$, and $AZ = a - 2$, find the length of all 3 sides.

2) In #1 find the $m\angle A$ and $m\angle X$ (use trig)

3) In a right triangle the hypotenuse is represented by $2x + 1$ and the legs are represented by $2x$ and $x - 1$. Find the sides and find the area of this triangle.

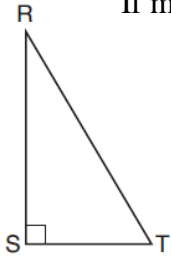
4) If a triangle has the following vertices: $(0,9)$, $(1,4)$, and $(-2, 7)$ which type of triangle is it?

5) Find the perimeter of a triangle that has the following vertices: $(6, 5)$, $(10, 1)$, and $(8, -2)$.

6) Find the area of the triangle in #5

7) What type of triangle is formed by the following vertices: (2,2), (6,8), (8,-2)?

8) If $m\angle SRT = 37.5^\circ$ and $RT = 17\text{ft}$ solve the triangle.



9) Triangle ABC is isosceles with $\angle A$ as the vertex angle. If $CB = 26$, $m\angle C = 10x + 1$, and $m\angle B = 13x - 14$ find AB.

