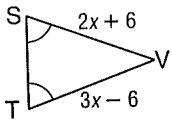


Name: _____ Date: _____ HR: _____

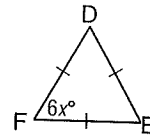
Isosceles and Equilateral Triangles- HW#2

Find x .

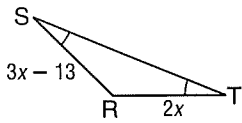
1.



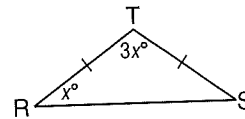
2.



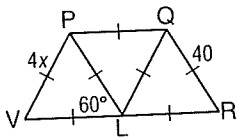
3.



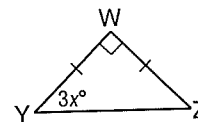
4.



5.



6.



7. Find the measure of each side of equilateral $\triangle RST$ with $RS = 2x + 2$, $ST = 3x$, and $TR = 5x - 4$.

$$\begin{aligned}x &= \underline{\hspace{2cm}} \\RS &= \underline{\hspace{2cm}} \\ST &= \underline{\hspace{2cm}} \\TR &= \underline{\hspace{2cm}}\end{aligned}$$

8. Find the measure of each side of isosceles $\triangle ABC$ with $AB = BC$ if $AB = 4y$, $BC = 3y + 2$, and $AC = 3y$.

$$\begin{aligned}y &= \underline{\hspace{2cm}} \\AB &= \underline{\hspace{2cm}} \\BC &= \underline{\hspace{2cm}} \\AC &= \underline{\hspace{2cm}}\end{aligned}$$

9. Find the measure of each side of $\triangle ABC$ with vertices $A(-1, 5)$, $B(6, 1)$, and $C(2, -6)$. Classify the triangle.