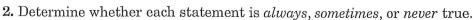
Isosceles and Equilateral Triangles- In class Practice

- 1. Refer to the figure.
 - a. What kind of triangle is $\triangle QRS$? Isosceles
 - b. Name the legs of $\triangle QRS$. \overline{RS} , \overline{QS}
 - **c.** Name the base of $\triangle QRS$.
 - **d.** Name the vertex angle of $\triangle QRS$.
 - e. Name the base angles of $\triangle QRS$.

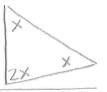


- a. If a triangle has three congruent sides, then it has three congruent angles. Always
- b. If a triangle is isosceles, then it is equilateral. Sometimes
- c. If a right triangle is isosceles, then it is equilateral.
- d. The largest angle of an isosceles triangle is obtuse.
- e. If a right triangle has a 45° angle, then it is isosceles. Alway5
- f. If an isosceles triangle has three acute angles, then it is equilateral. Sometimes
- g. The vertex angle of an isosceles triangle is the largest angle of the triangle. Semetimes
- 3. Give the measures of the three angles of each triangle.
 - a. an equilateral triangle 60, 60, 60
 - b. an isosceles right triangle 45, 45, 90
 - c. an isosceles triangle in which the measure of the vertex angle is 70 70, 55, 55
 - d. an isosceles triangle in which the measure of a base angle is 70
 - e. an isosceles triangle in which the measure of the vertex angle is twice the measure of one of the base angles 45, 45, 90

Find X.

4X=180

x = 45

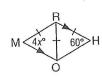


4.



6x-5=5x

5.



6.

