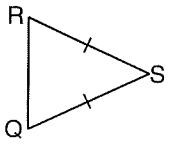
Name: _____ Date: _____ HR: _____

Isosceles and Equilateral Triangles- In class Practice

1. Refer to the figure.



a. What kind of triangle is $\triangle QRS$?

b. Name the legs of $\triangle QRS$.

c. Name the base of $\triangle QRS$.

d. Name the vertex angle of $\triangle QRS$.

e. Name the base angles of $\triangle QRS$.

2. Determine whether each statement is *always*, *sometimes*, or *never* true.

a. If a triangle has three congruent sides, then it has three congruent angles.

b. If a triangle is isosceles, then it is equilateral.

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.

f. If an isosceles triangle has three acute angles, then it is equilateral.

g. The vertex angle of an isosceles triangle is the largest angle of the triangle.

3. Give the measures of the three angles of each triangle.

a. an equilateral triangle

b. an isosceles right triangle

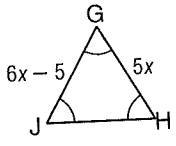
c. an isosceles triangle in which the measure of the vertex angle is 70

d. an isosceles triangle in which the measure of a base angle is 70

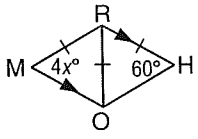
e. an isosceles triangle in which the measure of the vertex angle is twice the measure of one of the base angles

Find x.

4.



5.



6.