

The Triangle and its Properties

Topic: Angle Sum Property

Name: Date:

1. Two angles of a triangle are of measures 150° and 30° . Find the measure of the third angle. $^\circ$

2. One of the angles of a triangle is 130° , and the other two angles are equal. What is the measure of each of these equal angles? $^\circ$

3. The three angles of a triangle are equal to one another. What is the measure of each of the angles? $^\circ$

4. The angles of a triangle are $(x - 40)^\circ$, $(x - 20)^\circ$ and $(\frac{1}{2} - 10)^\circ$. Find the value of x . $^\circ$

In each of the following, the measures of three angles are given. State in which cases the angles can possibly be those of a triangle: (Give the answer as: Triangle/Not triangle)

5. 63° , 37° , 80°

6. 45° , 61° , 73°

7. 59° , 72° , 61°

8. 45° , 45° , 90°

9. 30° , 20° , 125°

10. 48° , 59° , 72°

