

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.

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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?

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

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

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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°

