

Name: Class:

Find missing angles in special triangles

Remember that the sum of the angles in a triangle is always 180° .

1. A right angle triangle has one angle that measures 40° . Determine the measure of the other acute angle.
2. One angle of a right angle triangle measures 13° . Determine the measure of the other acute angle.
3. A right angle triangle has one angle that measures 67° . Determine the measure of the other acute angle.
4. If one of the angles of a right-angle triangle measures 21° , determine the measure of the other acute angle.
5. A right-angle triangle has one angle that measures 39° . Determine the measure of the other acute angle.
6. A right-angle triangle has one angle that measures 79° . Determine the measure of the other acute angle.
7. A right-angle triangle has one angle that measures 9° . Determine the measure of the other acute angle.

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Remember that the sum of the angles in a triangle is always 180° .

1. A right angle triangle has one angle that measures 40° .
Determine the measure of the other acute angle.

▶ **Notice:** This triangle has a right angle = 90° .

▶ **Step 1:** Add together the known angles.

$$90^\circ + 40^\circ = 130^\circ$$

▶ **Step 2:** Subtract the sum from 180° .

$$180^\circ - 130^\circ = 50^\circ$$

So the measure of the other acute angle is:

50°

2. So, the measure of the other acute angle is:

77°

3. So, the measure of the other acute angle is:

23°

4. So, the measure of the other acute angle is:

69°

5. So, the measure of the other acute angle is:

69°

6. So, the measure of the other acute angle is:

11°

7. So, the measure of the other acute angle is:

81°