Pythagorean Inequality Theorem

The side lengths of the triangle are given. Identify the types of the triangle as acute, Obtuse or right-angled by applying the Pythagorean theorem.

1)   12 m , 13 m , 20 m

   _____

2)   6 mm , 8 mm , 10 mm

   _____

3)   16 cm , 17 cm , 18 cm

   _____

4)   19 m , 23 m , 31 m

   _____

5)   15 cm , 36 cm , 39 cm

   _____

6)   9 m , 10 m , 12 m

   _____

7)   5 mm , 7 mm , 14 mm

   _____

8)   20 m , 22 m , 27 m

   _____

Pythagorean Inequality Theorem

Answer key

The side lengths of the triangle are given. Identify the types of the triangle as acute, Obtuse or right-angled by applying the Pythagorean theorem.

1) 12 m , 13 m , 20 m

Obtuse triangle

2) 6 mm , 8 mm , 10 mm

Right triangle

3) 16 cm , 17 cm , 18 cm

Acute triangle

4) 19 m , 23 m , 31 m

Obtuse triangle

5) 15 cm , 36 cm , 39 cm

Right triangle

6) 9 m , 10 m , 12 m

Acute triangle

7) 5 mm , 7 mm , 14 mm

Obtuse triangle

8) 20 m , 22 m , 27 m

Acute triangle