

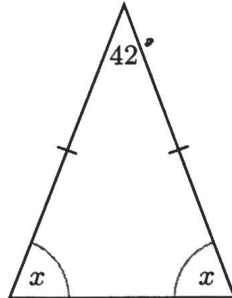
MA 202: Quiz 2
Thursday 01/25/2018

Name Solution Key

Section 0021003

4 pts

1. Find the value of x and classify the triangle *in as many ways as possible*.



$$\begin{aligned} \text{Sum of angles is } 180^\circ: & x + x + 42^\circ = 180^\circ \\ & 2x = 138^\circ \\ & x = \underline{\underline{69^\circ}} \end{aligned} \quad \left. \vphantom{\begin{aligned} \text{Sum of angles is } 180^\circ: \\ & 2x = 138^\circ \\ & x = \underline{\underline{69^\circ}} \end{aligned}} \right\} +2 \text{ pts}$$

The triangle is an isosceles acute triangle

(+1) (+1) · a

2. Determine if the statement is *always*, *sometimes*, or *never* true. (Circle one).

2 pts

A right triangle has an obtuse angle.

Never true. The two nonright angles of a right triangle sum to 90° , so neither is obtuse.