Name:__

Section 7.2 - Proving Triangles are Right, Acute, or Obtuse



Classify a triangle with the given side lengths as right, acute, or obtuse. **Note:** The side lengths are listed from smallest to largest.

a) 6, 8, 10

b) 6, 6, 10

c) 7,9,11

d) $\sqrt{8}$, 4, 6

e) $2\sqrt{3}, \sqrt{13}, 5$

f) $\sqrt{6}, \sqrt{8}, \sqrt{10}$

Ex 2:

The sides and classification of a triangle are given below. The length of the longest side is the integer given. What value(s) of x make the triangle? **a)** x, x, 8; right **b)** x, x, 6; acute **c)** x, 3x, 10; obtuse