

A Picnic Table Problem

Refer to the diagram below. The width of the table x and the height of the table (minus the thickness of the top) y are given. The width of the table leg b is also given. The thickness of the top is 1.5 inches. You are about to cut the leg (diagonal board) using a sliding mitre saw. But, you realize that you do not know the angle θ to set on the saw. Your task is to write a computer program that inputs three floating point numbers representing x , y and b , and prints the angle θ (in degrees) accurate to four significant digits.

