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 $\theta$ 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 $\theta$ (in degrees) accurate to four significant digits.