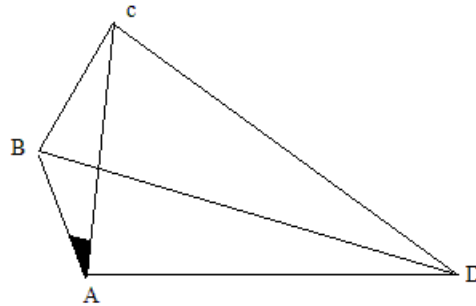| C	Mr. X & a puzzle paper	Time limit: 1 sec

Last time Mr. X opens a shop. One day he found a paper with a simple geometric shape and a question. The picture of paper is given bellow.

Now, he solve this problem for different values of <ACB, <ADB, <BDC, <BAD+<ACD. But he is not sure about his answer. He knows you are a good programmer who loves geometry very much.

So, he asks you to write a code of this problem.

Input:

The first line contains test case T (T ≤ 10000).
Next line contains four integers ∠ACB, ∠ADB, ∠BDC, ∠BAD + ∠ACD.

0 < ∠ACB, ∠ADB, ∠BDC, ∠BAD + ∠ACD < 90
0 < ∠ADB + ∠BDC ≤ 90
0 < ∠ACB + ∠BAD + ∠ACD ≤ 180

Output:

Output ∠**BAC** up to 4 digits after decimal point. (Use %.4lf to print the result)
You can assume that all the inputs are valid.

Input	Output
1 10 20 30 145	15.0000