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//File: triLength.cpp
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//Creation date: 2/1/2019
/* This program calculates length of triangle side c by using the law of
cosines.*/
#include <iostream>
#include <cmath>
using namespace std;
int main()
  double lengthA; //length of triangle side a
  double lengthB; //length of triangle side b
  double lengthC; //length of triangle side c
  double degreeAB; //degrees between sides a and b
  cout << "Enter length of side A: ";</pre>
  cin >> lengthA;
  cout << "Enter length of side B: ";</pre>
  cin >> lengthB;
  cout << "Enter angle between sides A and B (degrees): ";</pre>
  cin >> degreeAB;
  degreeAB = degreeAB * M PI / 180;
  lengthC = sqrt( pow(lengthA , 2) + pow(lengthB , 2) - 2 * lengthA *
lengthB * cos (degreeAB));
  cout <<"length of side C is " << lengthC << endl;</pre>
 return 0;
}
```