

Area

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Timelimit: 1

Make a program that reads three floating point values: A, B and C. Then, calculate and show:

- a) the area of the rectangled triangle that has base A and height C.
- b) the area of the radius's circle C. ($\pi = 3.14159$)
- c) the area of the trapezium which has A and B by base, and C by height.
- d) the area of the square that has side B.
- e) the area of the rectangle that has sides A and B.

Input

The input file contains three double values with one digit after the decimal point.

Output

The output file must contain 5 lines of data. Each line corresponds to one of the areas described above, always with a corresponding message (in Portuguese) and one space between the two points and the value. The value calculated must be presented with 3 digits after the decimal point.

Input Samples	Output Samples
3.0 4.0 5.2	TRIANGULO: 7.800
	CIRCULO: 84.949
	TRAPEZIO: 18.200
	QUADRADO: 16.000
	RETANGULO: 12.000
12.7 10.4 15.2	TRIANGULO: 96.520
	CIRCULO: 725.833
	TRAPEZIO: 175.560
	QUADRADO: 108.160
	RETANGULO: 132.080