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## Grader

## Grader

10.0/10.0 points (ungraded)

A regular polygon has n number of sides. Each side has length s.

- The area of a regular polygon is:  $\frac{0.25*n*s^2}{tan(\pi/n)}$
- The perimeter of a polygon is: length of the boundary of the polygon

Write a function called polysum that takes 2 arguments, n and s. This function should sum the area and square of the perimeter of the regular polygon. The function returns the sum, rounded to 4 decimal places.

#### Hint: What to import?

Which library should you be importing at the beginning of your code in order to call the tan function and to get the pi constant?

This is an optional exercise, but great for extra practice!

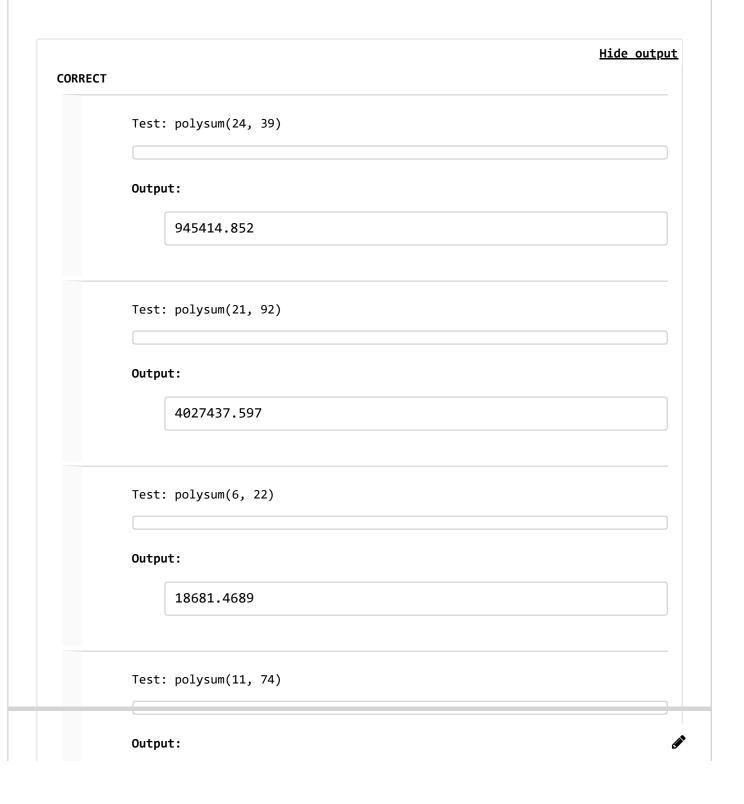
```
1 | " " "
2 Exercícios da 2ª Semana do curso
4 import math
7 def perimetro(n, s):
      """:arg:n = int, número de lados de um polígono;
9
              s = float, tamanho de cada lado de um polígono regular
```

```
10
11
               out: float (4 casas decimais), a soma da área com o quadrado do pe
12
      return n * s
13
14
15 def area(n. s):
```

Press ESC then TAB or click outside of the code editor to exit

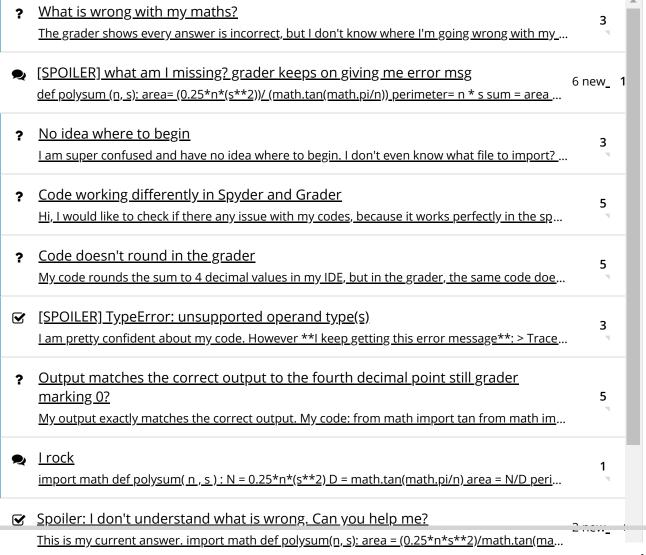
Correta

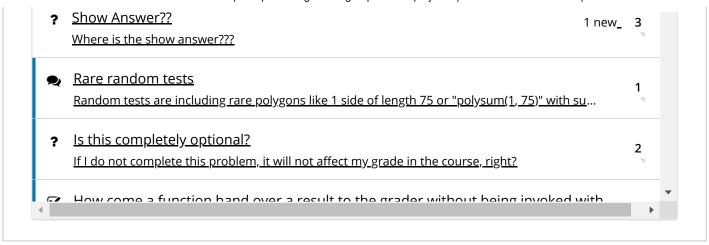
# Test results



713882.2441
Test: polysum(77, 71)
Output:
32265187.6748
Test: polysum(88, 49)
Output:
20072326.6694
Test: polysum(98, 58)
Output
Output:
34877952.7381
Test: polysum(86, 92)
Output:
67579057.2798
Test: polysum(50, 2)
Output:
10794.7272

020	Grader   Complete Programming Experience: polysum   Material didático 6.00.1x   edX  Test: polysum(44, 89)  Output:  16553306.5644				
					<u> Hide output</u>
				Envia	r
	_	um Grader ek 2 / polysum Grader	Ocultar discussão		
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	nat is wrong with my maths? e grader shows every answer is incorrect, but I don't	know where I'm going wrong with my			
<b>▶</b> [SP	OILER] what am I missing? grader keeps on g	giving me error msg 6 new_ 1			





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