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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!

```
"""
Exercícios da 2ª Semana do curso
"""
import math


def perimetro(n, s):
    """:arg:n = int, número de lados de um polígono;
            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

Hide output

CORRECT

Test: polysum(24, 39)

Output:

```
945414.852
```

Test: polysum(21, 92)

Output:

```
4027437.597
```

Test: polysum(6, 22)

Output:

```
18681.4689
```

Test: polysum(11, 74)

Output:

713882.2441

Test: polysum(77, 71)

Output:

32265187.6748

Test: polysum(88, 49)

Output:

20072326.6694

Test: polysum(98, 58)

Output:

34877952.7381

Test: polysum(86, 92)

Output:

67579057.2798

Test: polysum(50, 2)

Output:

10794.7272

```
Test: polysum(44, 89)
```

Output:

```
16553306.5644
```

Hide output

Enviar

polysum Grader

Ocultar discussão

Topic: Week 2 / polysum Grader

Show all posts por atividade recente

?	What is wrong with my maths? The grader shows every answer is incorrect, but I don't know where I'm going wrong with my ...	3
💬	[SPOILER] what am I missing? grader keeps on giving me error msg def polysum (n, s): area= (0.25*n*(s**2))/ (math.tan(math.pi/n)) perimeter= n * s sum = area ...	6 new 1
?	No idea where to begin I am super confused and have no idea where to begin. I don't even know what file to import? ...	3
?	Code working differently in Spyder and Grader Hi, I would like to check if there any issue with my codes, because it works perfectly in the sp...	5
?	Code doesn't round in the grader My code rounds the sum to 4 decimal values in my IDE, but in the grader, the same code doe...	5
☑	[SPOILER] TypeError: unsupported operand type(s) I am pretty confident about my code. However **I keep getting this error message**: > Trace...	3
?	Output matches the correct output to the fourth decimal point still grader marking 0? My output exactly matches the correct output. My code: from math import tan from math im...	5
💬	I rock import math def polysum(n , s) : N = 0.25*n*(s**2) D = math.tan(math.pi/n) area = N/D peri...	1
☑	Spoiler: I don't understand what is wrong. Can you help me? This is my current answer. import math def polysum(n, s): area = (0.25*n*s**2)/math.tan(ma...	2 new 1

? Show Answer?? 1 new 3
Where is the show answer???

Rare random tests 1
Random tests are including rare polygons like 1 side of length 75 or "polysum(1, 75)" with su...

? Is this completely optional? 2
If I do not complete this problem, it will not affect my grade in the course, right?

How come a function hand over a result to the grader without being invoked with