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## Computing Areas

X88172\_en

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Write a function *area(type, a, b)* that receives a string *type* (which may be "rectangle", "triangle", or "circle") and two real numbers *a* and *b*, and computes the area of the given shape.

- If *type* is "rectangle", *a* and *b* are the width and height of the rectangle, respectively.
- If *type* is "triangle", *a* and *b* are the base and height of the triangle, respectively.
- If *type* is "circle", *a* is the radius of the circle, and *b* is ignored.

**Important:** Only the function is expected. If your submission includes a main program, it has to be either commented out, or under the condition `if __name__ == "__main__":`

### Observation

To get the value of  $\pi$ , add a line with `'import math'` at the top of your file, and then use `math.pi` when needed.

### Problem information

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