

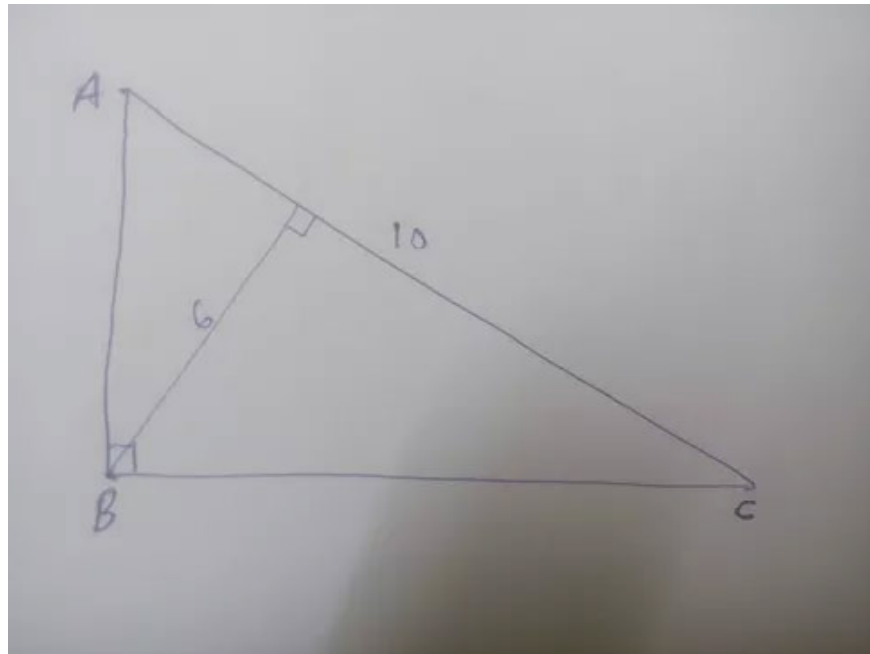
Idea is a simple level 2 math problem but this interview question from Microsoft makes the candidate slip 'toss'.

Prashant Bagdia is a candidate who entered the interview round of Microsoft. Professional questions do not make Prashant Bagdia difficult, but when the last question is asked, he does not cease to be 'oh my god'.

Having a position in Microsoft, one of the world's leading technology corporations is the wish of many people. But reality is not a simple thing, because to apply for this company, candidates not only need to master the expertise but also have to prepare the 'steel' spirit to answer questions no one has. Surprisingly, even a question can cause a sensation to the candidate. And the story was shared by a Microsoft candidate named Prashant Bagdia on the Quora forum since 2016 as an example.

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The question is roughly as follows: Calculating the area of ??a right triangle knows that the hypotenuse length is 10, the height to the hypotenuse is 6.



As soon as they read the question, many people will assume that this is just a simple level 2 math problem, even many middle school students can solve it. Is it an easy question for an interview at the world's top corporation?

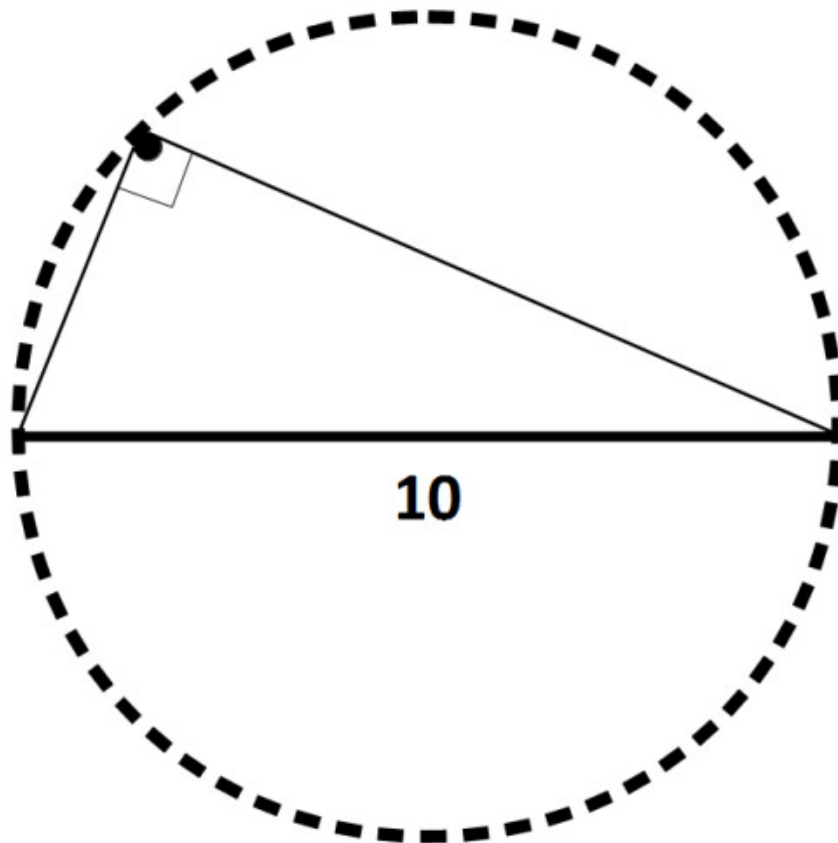
Bagia also thinks so and thinks this is a trick question, there must be something hidden behind it. But even though he thought carefully without discovering anything, he decided to give an answer based on the basic knowledge (triangle area by bottom multiplying the height divided by two). And Bagia's answer is $0.5 \times 10 \times 6 = 30$.

After hearing Bagdia's answer, the interviewer asked again: *'Are you sure about this answer? Please try again.'* Bagdia again calculated and thought, he finally answered: *'I am sure the answer to this question is 30. He wants me to think differently to confuse me, so that I can give the wrong answer to the question. this basic.'*

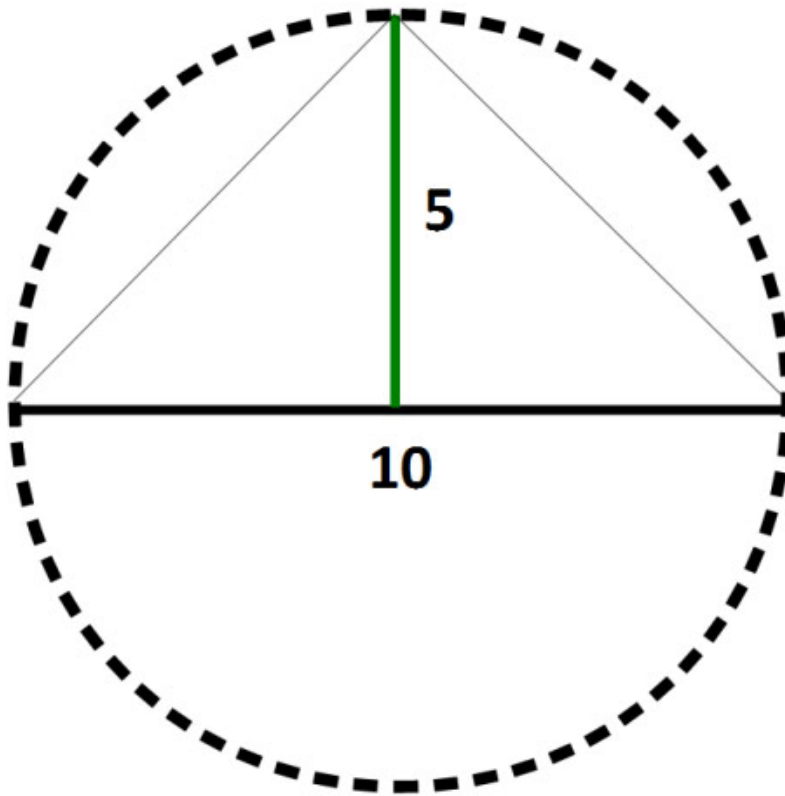
But the interviewer gave the answer: The triangle does not exist.

Review the mathematical knowledge to know why the problem has such an answer.

When placing a right triangle in a circle, with a hypotenuse of diameter, the opposite angle is the right angle, 90 degrees. So, the other two corners will be 180 degree offset with the other point anywhere on that circle.



With the above figure we see, the radius of the circle is the maximum high of this triangle to the hypotenuse, ie equal to 5. This means that a right triangle with hypotenuse equals 10, the maximum height to the hypotenuse only 5.



And of course, it means that the right triangle has a hypotenuse of 10 and the high line to the hypotenuse of 6 as the given question does not exist.

This question may seem simple but candidates who want to answer need to think in many different ways, including the logic of the problem.

Bagdia slipped into Microsoft 's interview in a state of confusion by not understanding where the ridiculous triangle is.

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