

Application

Do you think this formula has an application in our life?

Obviously the Pythagorean theorem have a huge impact in our life!

Albert Einstein said "Without mathematics, there is nothing you can do. Everything around you is mathematics. Everything around you is just numbers." If mathematics is essential for the proper functioning of our society then Pythagorean theorem have a lot of applications in our life. Pythagorean theorem is widely use in architecture, construction and aviation.

Architecture and construction

If there is two straight line which is perpendicular, the Pythagorean theorem allows you to calculate the length of the diagonal connecting them. For example consider that you have to build a slopes roof. If you know the height and the length of the roof for it to cover, you can use Pythagorean theorem to find the diagonal length of the roof slope. You cause the information to cut precisely the sized of the beams to support the roof.

Navigation

The Pythagorean theorem is useful for 2D navigation. You can use it to find the shortest distance between two points. For example distance north and west will be the two legs of the triangle the shortest distance connection the two points will be the diagonal distance which is the hypotenuse. The same principle can be used for air navigation

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