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use trig trigonometry from ancient greek τρίγωνον trigōnon triangle and μέτρον métron measure is a branch of mathematics concerned with relationships between angles and side lengths of triangles what are some real life applications of trigonometry updated march 13 2018 by emily beach trigonometry the branch of mathematics that describes the relationship between the angles and lengths of triangles helped early explorers plot the stars and navigate the seas trigonometry spreads its applications into various fields such as architects surveyors astronauts physicists engineers and even crime scene investigators now before going to the details of its applications let's answer a question have you ever wondered what field of science first used trigonometry trigonometry helps us find angles and distances and is used a lot in science engineering video games and more right angled triangle the triangle of most interest is the right angled triangle the right angle is shown by the little box in the corner another angle is often labeled θ and the three sides are then called in this chapter we will explore applications of trigonometry that will enable us to solve many different kinds of problems including finding the height of a tree we extend topics we introduced in trigonometric functions and investigate applications more deeply and meaningfully trigonometry has a lot of real life applications of trigonometry such as in astronomy to calculate the distance between planets and stars other than that one application of trigonometry is the calculation of the height and distance of various objects in the real world what is trigonometry

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