

# Ask 10 questions about trigonometry with the answers

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Q1: What is sin in trigonometry?

A1: Sin is a trigonometric function which gives the ratio of the side length of a right triangle's side opposite a given angle to the length of the hypotenuse.

Q2: What is law of sines?

A2: The law of sines is a mathematical theorem that states that for any triangle, the ratio of the length of its sides to the sines of their opposite angles is constant.

Q3: How is the sine function used in trigonometry?

A3: The sine function is used to determine angles and distances in triangles. It can be used to find angles of any triangle when given the length of two of its sides.

Q4: What is the definition of the tangent function in trigonometry?

A4: The tangent function is a trigonometric function that gives the ratio of the side length of a right triangle's side adjacent to a given angle to the length of the hypotenuse.

Q5: What is the cotangent function?

A5: The cotangent function is a trigonometric function that gives the ratio of the side length of a right triangle's side opposite a given angle to the length of the side adjacent to the angle.

Q6: What is the definition of the secant function in trigonometry?

A6: The secant function is a trigonometric function that gives the ratio of the length of a right triangle's hypotenuse to the length of the side adjacent to a given angle.

Q7: How is the cosine used in trigonometry?

A7: The cosine is used in trigonometry to calculate distances and angles in triangles. It can be used to calculate a side length when given the length of two other sides.

Q8: What is the formula for the period of a trigonometric function?

A8: The formula for finding the period of a trigonometric function is  $2\pi/B$ . This formula is used to find the period of the function when given the angular coefficient (B) of the function.

Q9: How is the co-function used in trigonometry?

A9: The co-function is used to express the reciprocal of the six trigonometric functions. For example,  $\sin(x) = 1/\cos(x)$ .

Q10: How is the inverse trigonometric function used?

A10: The inverse trigonometric function is used to find the angle (in radians) for a given trigonometric ratio. It can be used to solve for an angle, when given the sin, cos, or tan of that angle.