



# Advanced Engineering Mathematics 11th Edition

**Liying Dong**



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web the ratios of the sides of a right triangle are called trigonometric ratios three common trigonometric ratios are the sine  $\sin$  cosine  $\cos$  and tangent  $\tan$  these are defined for acute angle  $A$  below

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web solve the right triangle figure pageindex 2 solution the two acute angles are congruent making them both  $45^\circ$  this is a  $45^\circ$   $45^\circ$   $90^\circ$  triangle you can use the trigonometric ratios or the special right triangle ratios trigonometric ratios begin array

$\tan 45^\circ = \frac{15}{b} = \frac{15}{c} \sin 45^\circ = \frac{15}{a}$

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web right triangles pythagorean theorem sines sin cosines cos tangents tan now suppose we know the hypotenuse and one side but have to find the other for example if 119 and 169 then  $119^2 + 14161 = 14400$  and the square root of 14400 is 120 so 120 we might only know one side but we also know an

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web right triangle trigonometry learning objective s use the pythagorean theorem to find the missing lengths of the sides of a right triangle find the missing lengths and angles of a right triangle find the exact trigonometric function values for angles that measure  $30^\circ$   $45^\circ$  and  $60^\circ$

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web in this section we introduce the trigonometric functions using a right triangle there are 6 main trigonometric functions sine cosine tangent cotangent secant and cosecant for acute angles these functions can be defined as ratios between the

sides of a right triangle consider a right triangle  $abc$  with an acute angle  $\alpha$

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web a right triangle is a type of triangle that has one angle that measures 90 right triangles and the relationships between their sides and angles are the basis of trigonometry in a right triangle the side that is opposite of the 90 angle is the longest side of the triangle and is called the hypotenuse