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Right-Triangle Definition: Reciprocal Identities: Ratio Identities: Tangent and Cotangent Identities: Pythagorean Identities: Reciprocal Identities: Half Double Angle Formulas $\sin(2\,u) = 2\sin u \cos u \cos\cos(2\,u) = u - \sin u$ le of Trigonometric Identities Prepared byPythagorean Identities $\sin 2\,x + \cos 2\,x = + \tan 2\,x = \sec 2\,x$. Textbook of Algebra and Trigonometry for Class XI. Available online @, VersionExample: Find all the complex fourth roots ofThat is, nd all the complex solutions of $x4 =$ We are asked to nd all complex fourth roots ofThese are all the solutions (including the complex values) of the equation $x4 =$ For any positive integer n, a nonzero complex number zhas exactly ndistinct nth roots Title: Trig_Cheat_Sheet Author: ptdaw Created Date/2/AM Double Angle and Half Angle Formulas $\sin(2) = \sin \cos \cos(2) = \cos 2 \sin\tan(2) = \tan\tan \sin= r\cos\cos= r$ $1+\cos\tan=\cos \sin = \sin\cos \tan= r$ $1+\cos\cos$ Other Useful Trig Formulas Law of sines $\sin = \sin = \sin$ Law of cosines $a2 = b2 +cb c \cos b2 = a2$ $+ca c \cos c2 = a2$ Angle Addition, Double Angle, Half Angle FormulasExamplesPower Reducing FormulasProduct-to-Sum FormulasSum-to-Product FormulasExamples ChapterTrigonometric Identities and EquationsVerifying IdentitiesVerifying IdentitiesTechniquesSolving Trigonmetic EquationsSolving Trigonmetic EquationsExamples Trig Cheat Sheet Definition of the Trig FunctionsProduct to Sum Formulas $\sin y\ \theta==y\csc y\ \theta=$ $\cos x\ \theta==x\sec x\ \theta= ()\ \tan y\ x\ \theta= \cot x\ y\ \theta=$ Facts © Paul Dawkins Trig Cheat Sheet Definition of the Trig Functions Right triangle definition For this definition we assume that$p < "$ "