

Trigonometric Identities



Setting Up a Difference of Squares

$$\sin^2 \theta \cos \theta \sec \theta = 1 - \cos^2 \theta$$

$$\sin^2 \theta (\cancel{\cos \theta}) (\cancel{\frac{1}{\cos \theta}}) = 1 - \cos^2 \theta$$

$$\sin^2 \theta = 1 - \cos^2 \theta$$

$$\underline{\sin^2 \theta} = \underline{1 - \cos^2 \theta}$$

QED!

EX #6: Prove the identity:

Notes: The extra terms in the denominator of the left expression makes it more complicated.

$$\frac{(1+\sin t) \cos t}{(1+\sin t)} - \frac{1+\sin t}{\cos t}$$

$$\cos t (1+\sin t) = \frac{1+\sin t}{\cos t}$$

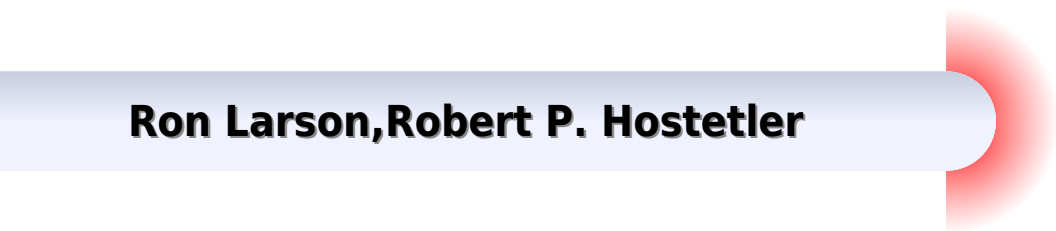
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Using Trigonometric Identities Key Precalculus Unit 5

Lesson

Ron Larson, Robert P. Hostetler



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Resources in Education ,1992-04

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Precalculus
 Ron Larson,Robert P. Hostetler,2001 As the best seller in its field Precalculus 5 e offers both instructors and students a more

solid comprehensive and flexible program than ever before Designed for the one or two term precalculus course the text opens with moderate algebra review and introduces trigonometry first with a unit circle approach and then with the right triangle For a complete listing of features see Larson Hostetler College Algebra 5 e *Choice* ,1998 *Resources in Education* ,1992 **Current Index to Journals in Education** ,1996 The Software Encyclopedia 2000 Bowker Editorial Staff,2000-05 **Subject Guide to Books in Print** ,1975 **The Publishers' Trade List Annual** ,1983 **Identities and Functions** Alpha & Omega Publishing,2001-03-01

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