

Reciprocal Identities

$\sin \theta = \frac{1}{\csc \theta}$	$\cos \theta = \frac{1}{\sec \theta}$	$\tan \theta = \frac{1}{\cot \theta}$
$\csc \theta = \frac{1}{\sin \theta}$	$\sec \theta = \frac{1}{\cos \theta}$	$\cot \theta = \frac{1}{\tan \theta}$

Quotient Identities

$\tan \theta = \frac{\sin \theta}{\cos \theta}$	$\cot \theta = \frac{\cos \theta}{\sin \theta}$
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Pythagorean Identities

$\sin^2 \theta + \cos^2 \theta = 1$	$\tan^2 \theta + 1 = \sec^2 \theta$	$1 + \cot^2 \theta = \csc^2 \theta$
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Negative Angle Identities

$\sin(-\theta) = -\sin \theta$	$\cos(-\theta) = \cos \theta$	$\tan(-\theta) = -\tan \theta$
$\csc(-\theta) = -\csc \theta$	$\sec(-\theta) = \sec \theta$	$\cot(-\theta) = -\cot \theta$

Answer Sheet Verifying Trigonometric Identities

**Michelle Rose Gilman, Christopher
Burger, Karina Neal**



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web eine dampfmaschine erhitzt wasser so dass daraus dampf wird aus dem dampf macht sie bewegung mit der bewegung wird eine andere maschine angetrieben zum beispiel in einer lokomotive schon im altertum haben menschen versucht

dampfmaschine leifiphysik - May 18 2023

web abb 1 grundprinzip einer dampfmaschine am beispiel der atmosphärischen dampfmaschine von papin bei papin ist das druckgefäß gleichzeitig kessel zylinder und kondensator die kondensation geschah durch wärmeabgabe an die umgebung dazu musste man das vom gefäß von der feuerstelle trennen oder umgekehrt

dampfmaschine erfinder funktion bedeutung co gevestor - Aug 09 2022

web aug 3 2022 die dampfmaschine stellte sich als besonders bedeutend für die industrielle revolution heraus sie wurde anfangs in der textilindustrie und später dank verbesserungen auch zum betriebe von

james watt der verbesserer der dampfmaschine ard alpha - Jan 14 2023

web jan 4 2023 im winter 1763 64 kommt es an der universität zu einem schicksalsträchtigen ereignis der talentierte feinmechaniker james watt bekommt den auftrag ein modell einer newcomen dampfmaschine wieder zum laufen zu bringen dabei erkennt er den haken an dieser dampfmaschine die enormen wärmeverluste und die unmengen an kohle