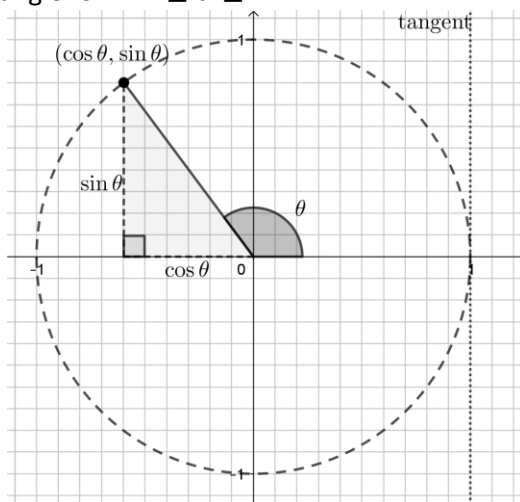


Trigonometry Reference Sheet Grade 11 Precalculus

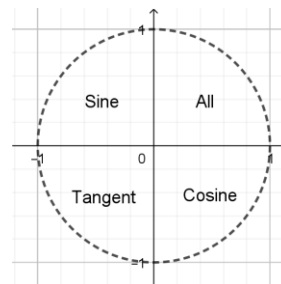
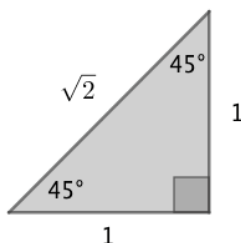
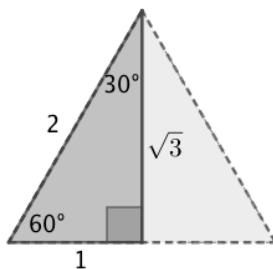
Define sine, cosine, tangent of an angle for $-\infty \leq \theta \leq \infty$



Identities

$\tan \theta = \frac{\sin \theta}{\cos \theta}$	$\sin^2 \theta + \cos^2 \theta = 1$
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Exact Value Triangles; ASTC diagram



SOH CAH TOA, for right angled triangles only

$\sin \theta = \frac{\text{opp}}{\text{hyp}}$	$\cos \theta = \frac{\text{adj}}{\text{hyp}}$	$\tan \theta = \frac{\text{opp}}{\text{adj}}$
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Sine Law, use when an opposite-side/angle pair is given:

$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$	$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$
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Cosine Law, use when SAS is given, or SSS is given:

$a^2 = b^2 + c^2 - 2bc \cos A$	$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$
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