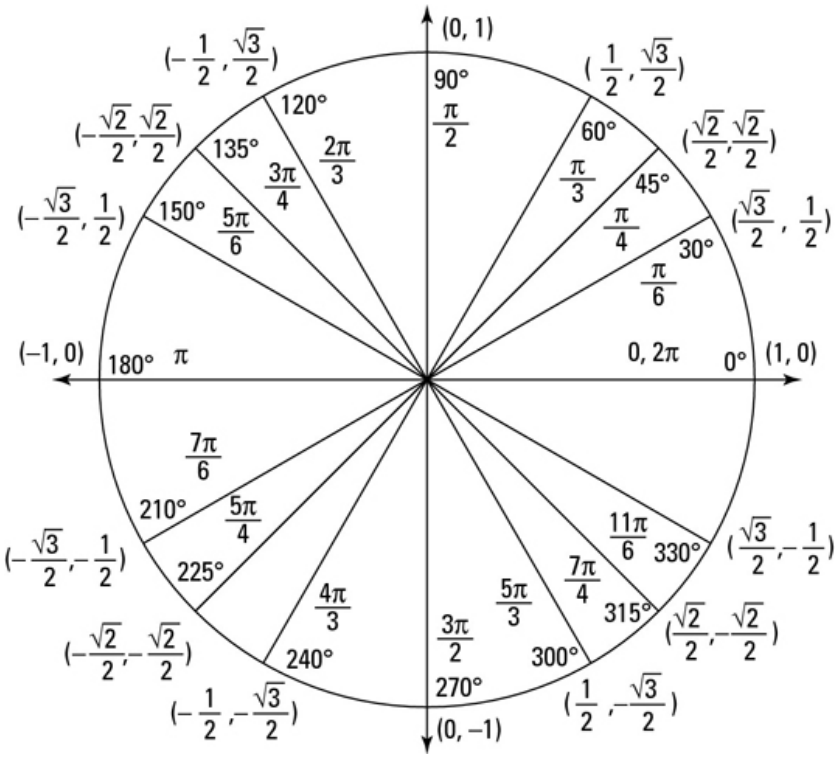
FST Name _____

Final Reference Sheet

This reference sheet may be used on the entire final exam. A graphing calculator may be used on the second half.



Law of Sines	Law of Cosines	Area Formula
$\frac{\sin A}{a}=\frac{\sin B}{b}=\frac{\sin C}{c}$	$c^2=a^2+b^2-2ab\cos C$	$A=\frac{1}{2}ab\sin C$

Trigonometric Identities

Name	x	$\cos x$	$\sin x$	$\tan x$
Opposite	$-\theta$	$\cos\theta$	$-\sin\theta$	$-\tan\theta$
Half-Turn	$180°+\theta$	$-\cos\theta$	$-\sin\theta$	$\tan\theta$
Supplements	$180°-\theta$	$-\cos\theta$	$\sin\theta$	$-\tan\theta$
Complements	$90°-\theta$	$\sin\theta$	$\cos\theta$	
Pythagorean Identity	$\cos^2\theta+\sin^2\theta=1$			

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Final Reference Sheet

Transformations of Sine (or Cosine) Function

$\frac{y-k}{b}=\sin\left(\frac{x-h}{a}\right)$ amplitude: period:

phase shift: vertical shift:

Probability

Probability of an event: $P(E)=\frac{N(E)}{N(S)}$

Permutations: ${}_nP_r =$

Factorials: $n!=$

Additional Notes