Harry S. Mills (Steve)

Homework -20% — Most of your time

WebAssign Tests - 25% — 2 tries. Take the best.

Written Tests - 25% — To Be Arranged MIDTERM & FINAL

Writing Projects - 20% — Written Test Materials

Orientatiion Activities - 10% — E-mail settings, Register on WebAssign, etc

How to do Homework:

Main thing I do that's extra/special is all the videos I made for you, covering

virtually every exercise on WebAssign.

WebAssign Tests are drawn from the same question bank, so my video help on homework doubles as help preparing for the WebAssign Tests.

The primary indicator of success is the amount of time you spend working problems.

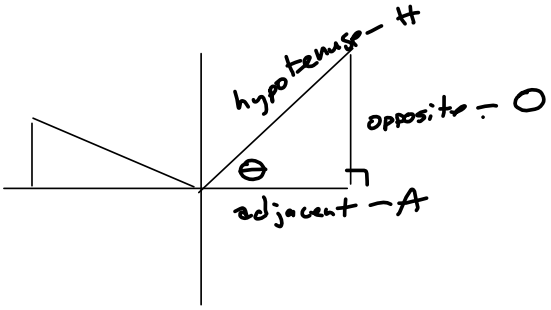
Also, and maybe right up there with time, is WORKING SMART.

iNSTANT, ON-DEMAND HELP PLUS A TEACHER ON CALL 24/7.

970-290-0550

BAD TIMES: MW 8:15 - 9:30 AM AND MTWR 11:15 AM TO 12:20 PM

Question on Practice Test Availability.



sine: $\sin(\theta) = \frac{O}{H}$

cosine: $\cos(\theta) = \frac{A}{H}$

Tangent: $\tan(\theta) = \frac{O}{A}$

θ is the angle or argument.

Mnemonic : SOHCAHTOA

"sock it toe uh

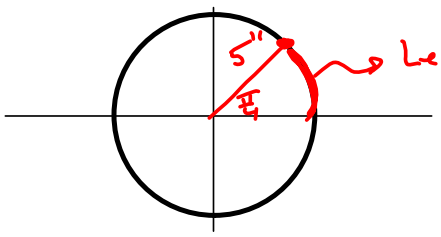
Radians make a/the connection between arc length and angles.

360° full circle

2π (Radians) full circle.

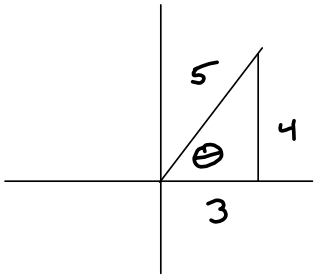
What's the circumference of a circle of radius r=1?

Arc length : $r\theta$, where θ is in radians.



Length is $r\theta = 5 \cdot \frac{\pi}{4} = \frac{5\pi}{4}$ inches.

Special Triangles



$\sin\theta = \frac{4}{5}$

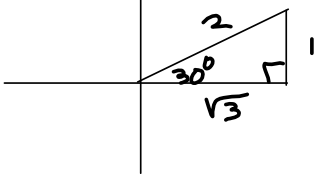
$\cos\theta = \frac{3}{5}$

$\tan\theta = \frac{4}{3}$

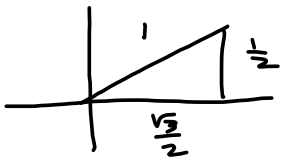
Me

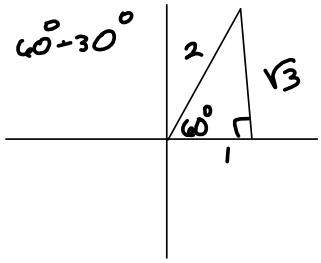
$30^\circ - 60^\circ$

$\frac{\pi}{6} - \frac{\pi}{3}$



Book:



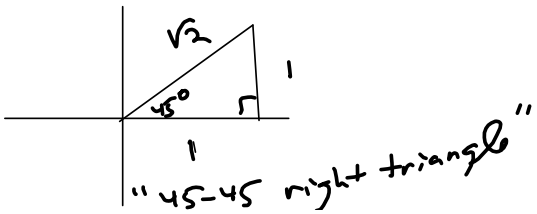


$(60^\circ)\left(\frac{2\pi}{360^\circ}\right) = \frac{2\pi}{6} = \frac{\pi}{3}$

When it's radians, we show no units.

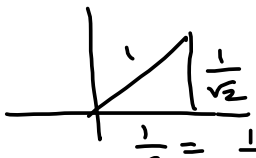
In general, use $\frac{\pi}{180^\circ}$ or $\frac{180^\circ}{\pi}$ as conversion factor,

depending on what direction you're going.

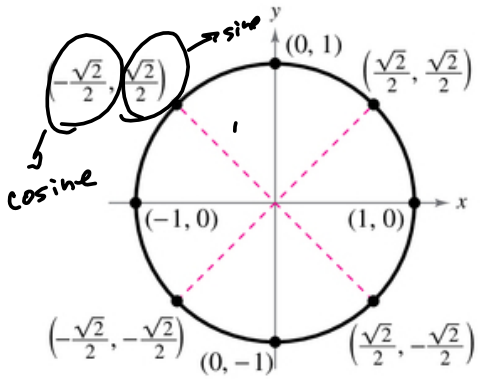


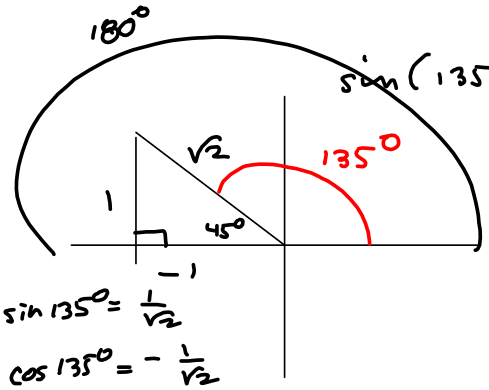
"45-45 right triangle"

Book



$\frac{1}{\sqrt{2}} = \frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{2}}{2}$





$\sin 135^\circ = \frac{1}{\sqrt{2}}$

$\cos 135^\circ = -\frac{1}{\sqrt{2}}$

$\tan 135^\circ = \frac{1}{-1} = -1$!

We didn't get to quadrant angles.