Sec 7.2 Compound Angle Formulas

-We will determine rules for sin(a+b), sin(a-b), cos(a+b), cos(a-b)

-We will be able to find **exact** trig values for several angles not in the special triangles!

Nov 30-1:41 PM

pg 394 - proof

Nov 15-11:07 AM

New ones... See p399

$\sin(x+y) = \sin x \cos y + \cos x \sin y$	$\sin(x-y) = \sin x \cos y - \cos x \sin y$
$\cos(x+y) = \cos x \cos y - \sin x \sin y$	$\cos(x-y) = \cos x \cos y + \sin x \sin y$
$\tan(x+y) = \dfrac{\tan x + \tan y}{1 - \tan x \tan y}$	$\tan(x-y) = \dfrac{\tan x - \tan y}{1 + \tan x \tan y}$

Dec 5-8:59 PM

How do we use them?

Determine the exact value of $\sin(15^o)$

Break the fraction into "known" values

$\sin(45^o - 30^o)$

$\sin(x-y) = \sin x \cos y - \cos x \sin y$

Dec 5-9:08 PM

How do we use them?

Determine the exact value of $\sin\frac{5\pi}{12}$

Break the fraction into "known" values

$$\sin(x+y) = \sin x \cos y + \cos x \sin y$$

Dec 5-9:08 PM

Find the exact value of:

$$\tan\frac{11\pi}{12}$$

May 13-3:19 PM

Homework
p400 #1, 2, 3cd, 4cd, 5abc,
6abf, 9ace

Dec 5-9:12 PM