WARM UP

On a clean sheet of paper (this will be the start of your homework), write one sentence from Guidelines for Verifying Trigonometric Identities on p. 360 that you think you will be helpful for proving identities. Then tell me why you chose that sentence.

Oct 22-5:41 PM

Questions from 5.1b

Oct 23-4:37 PM

What are some helpful strategies when proving identities?

5.2 (p. 365)
#1-9 (odd)

Oct 23-4:37 PM

Final strategy: Factoring!

$a^2 - a^2b^2 =$ $a^2(1-b^2)$

$x^2 + 2x + 1 =$ $(x+1)^2$

$a^2 - b^2 =$ $(a-b)(a+b)$

$a^4 - b^4 =$ $(a^2-b^2)(a^2+b^2)$
$(a-b)(a+b)(a^2+b^2)$

Oct 22-9:41 AM

$\tan^2 x - \tan^2 x \sin^2 x = \sin^2 x$

$\tan^2 x(1 - \sin^2 x)$

$\tan^2 x(\cos^2 x)$

$\frac{\sin^2 x}{\cos^2 x} \cdot \cos^2 x$

$\sin^2 x$

p. 358, #52 (HW)

Oct 22-9:45 AM

$1 + 2\cot^2 x + \cot^4 x = \csc^4 x$

$(1 + \cot^2 x)(1 + \cot^2 x)$

$\csc^2 x \cdot \csc^2 x$

$\csc^4 x$

p. 358, #56 (HW)

Oct 22-9:47 AM

$\csc^4 x - \cot^4 x = \csc^2 x + \cot^2 x$

$(\csc^2 x + \cot^2 x)(\csc^2 x - \cot^2 x)$

$(\csc^2 x + \cot^2 x)(1)$

$\csc^2 x + \cot^2 x$

p. 358, #58 (HW)

Oct 22-9:49 AM

HOMEWORK

...productive struggles

Worksheet :)

Oct 22-5:40 PM

5.2 (p. 365)
#21-27 (odd)

Oct 23-4:44 PM

5.2 (p. 365)
#32,35,39,43,47,59

Oct 23-4:44 PM

Next Day...

Oct 24-3:17 PM

Welcome back!
{Updated grades will be posted asap}

Coming up in Pre-Calc...

Tomorrow-Thursday: Basic Trig Identities Quizzes (best 2 out of 3)
Friday: No school!

Next Wednesday: Test (5.1-5.3)

Oct 24-3:08 PM

Questions on Basic Trig Identities Quizzes

Quotient: $\cot x = \frac{\cos x}{\sin x}$

Pythagorean: $1 + \tan^2 x = \sec^2 x$

Cofunction: $\sin(\frac{\pi}{2} - \theta) = ?$ $\cos(\theta)$

$\sin(90 - \theta)$

Even/Odd: $\sin(-\theta) = ?$ $-\sin(\theta)$

$\cos(-\theta) = \cos(\theta)$

Know p. 352

Oct 24-3:13 PM

WARM UP

- Read Guidelines for Verifying Trigonometric Identities on p. 360.
- In your own words, explain the guideline that you think is most important. Be sure to **justify** your choice.

Circle these: #1, 3, 4, 9, 11

Oct 22-5:41 PM

SUMMARIZE

What strategy did you use the most today?

Oct 22-5:41 PM

HOMEWORK

...practice makes perfect

Finish Worksheet
Basic Identities Quiz 1 of 3 tomorrow

Oct 22-5:40 PM

Questions from 5.2?

Oct 24-3:15 PM