7.2
Verifying Trig Identities
2.1.16
Lesson 10

Warmp-up
Write the Pythagorean identities.

Verify that
$\sec^2 x - tanx\ cotx = \tan^2 x$

Pick complicated side to simplify	$\sec^2 x - tanx\ cotx = \tan^2 x$	
Simplify by using identities	$\sec^2 x - tanx\ cotx = \tan^2 x$ $\sec^2 x - \frac{sin}{cos}x\ \frac{cos}{\sin}x = \tan^2 x$	Reciprocal identity
	$\sec^2 x - 1 = \tan^2 x$	Multiply and simplify
State which identity proves it true	$\sec^2 x - 1 = \tan^2 x$	True by Pythagorean identity

We Try:

Verify that

$$cscx - 1 = \frac{\cot^2 x}{cscx + 1}$$

Verify that

$$\frac{cosy}{1 - siny} = \frac{1 + siny}{cosy}$$

Verify that

$$sinx\ cosx\ tanx + \cos^2 x = 1$$

Exit Slip

Verify that

$$cosB\ cotB = cscB - sinB$$