

Bellwork Tuesday, April 29, 2014

For 1 and 2, simplify each trigonometric expression to a single trig function or number.

1. $\frac{\tan x}{\sec x - \cos x}$

2. $\frac{1 + \tan \theta}{\tan \theta} - \cot \theta$

Find the exact value of each using the Unit Circle.

3. $\sec \frac{15\pi}{4}$

4. $\cot(-840^\circ)$

Find the value of each to the nearest hundredth.

5. $\sec 137^\circ$

6. $\csc\left(-\frac{5\pi}{11}\right)$