Trig–Precalc Quiz 5.1 Review

ALL SUPPORTING WORK MUST BE SHOWN TO RECEIVE FULL CREDIT

Use basic identities to simplify the expression.

1) $\frac{1}{\cot^2\theta} + \sec\theta\cos\theta$

2) $\frac{\tan\theta}{\sec\theta}$

3) $\sin\theta\cos\theta\sec\theta\csc\theta$

Simplify the expression.

4) $\cot(-x)\tan x$

5) $\csc\left(\frac{\pi}{2} - x\right)\cos(-x)$

6) $\csc(-x)\sin(-x)$

Use the fundamental identities to find the value of the trigonometric function.

7) Given that $\cos(\theta - \pi/2) = -\frac{4}{5}$, find $\sin(\theta)$.

8) Find $\cos\theta$ if $\tan\theta = -\frac{12}{5}$ and $\cos\theta > 0$.

9) Find $\cot\theta$ if $\csc\theta = \frac{\sqrt{17}}{4}$ and $\tan\theta > 0$.

10) Find $\tan\theta$ if $\cos\theta = \frac{1}{2}$ and $\sin\theta < 0$.

SLOT Review

p. 314-315 Gray Book 11, 12, 27-34, 43-50, 63, 64, 76.

change to compounded continuously $A = Pe^{rt}$