QUIZ 13

Name _____

1. Suppose we know that $\cos(\theta) = \frac{2}{\sqrt{5}}$ and that $\frac{3\pi}{2} \leq \theta \leq 2\pi$. Find both $\sin(\theta)$ and $\tan(\theta)$.

2. State the amplitude, period and phase shift for the function $h(\theta) = -6\cos(4\theta - \frac{\pi}{4})$.

3. Show that $\cos(x) - \cos(x)\sin^2(x) = \cos^3(x)$ is true.

4. Decide whether or not $\dfrac{\sin(x-y)}{\sin(x)\cos(y)} = 1 - \cot(x)\tan(y)$ is true.