Quiz 3 Name: _____

Math 1060–5

Friday, September 14, 2012

Directions: Show all work for full credit. Clearly indicate all answers. Simplify all mathematical expressions completely. No calculators are allowed.

1. Consider the angle $\theta = \frac{11\pi}{3}$. (6 points each)

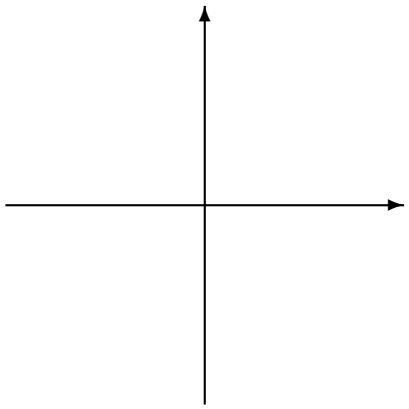
   (a) Find the reference angle, θ'.

   (b) Using your answer to (1a), find $\sin\theta$ and $\cos\theta$.

2. Given an angle θ in Quadrant II such that $\sin\theta = \dfrac{3}{5}$, find the values of the six trigonometric functions of θ. (14 points)

3. Find the amplitude and period of, and graph each of the following trigonometric functions. Include at least two periods for each graph. (12 points each)

(a) $y = -3\sin\left(\frac{x}{4}\right) + 2$



(b) $y = \frac{1}{3}\cos x$