Quiz 5 Exam 1 & 1.6

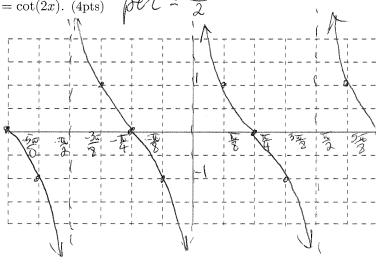
Name: _/10

Instructor: Matt Alexander Quiz Score: /10

1. A grandfather clock has a pendulum with a length of 3 feet that swings through an angle of 30 degrees. What is the area that the pendulum swings through in square feet? (Leave your answer in exact form.)(2pts)

 $A = \frac{1}{2} \left(\frac{\pi}{6} \right) 3^2 = \frac{3\pi}{4} ft^2$

2. Sketch the graph of $y = \cot(2x)$. (4pts)



3. Sketch the graph of $y = 2\sec\left(x - \frac{\pi}{2}\right)$. (4pts) $p \in \mathbb{Z} = \mathbb{Z}$

