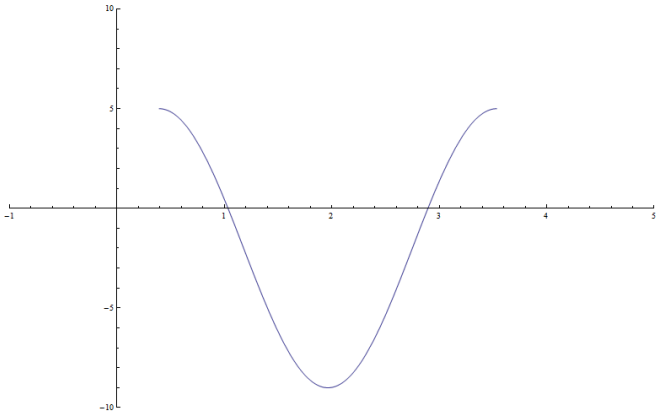
QUIZ 4 - MATH 131 Friday, February 19

YOUR NAME:_____ George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. (a) Find the amplitude, period and phase shift of $y = 5\sin\left(\frac{2}{3}x - \frac{2\pi}{3}\right)$.

(b) Find an equation for the wave of the figure (only one period is shown).



2. Verify the identity $\dfrac{\sin x}{1-\cos x} - \dfrac{\sin x}{1+\cos x} = 2\cot x$ (show all your steps clearly).