

MA 115-02 §6.4-7.4	Quiz #6	score	Name: _____ 21 July 2000
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1. Graph the function $f(x) = 2 \cos(2x) - 5 \sin(2x)$ on your calculator and estimate the values of A and δ that express f as a sinusoid $f(x) = A \sin(2(x - \delta))$. (5 points)

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2. Show that the following equations are identities: (10 points)

(a) $2 \cot x \csc x = \frac{1}{\sec x - 1} + \frac{1}{\sec x + 1}$

(b) $\sin(x + \frac{\pi}{2}) = -\cos x$

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3. Find all values of $x \in [0, 2\pi)$ that solve the equation $2 \sin^2 x - 3 \sin x + 1 = 0$. Show your work. (5 points)