Name: _____ MATH 200 – Quiz 7

I'm in the Thurs11 Thurs12 Thurs1 or Fri10 recitation. (Circle one) October 11, 2012

1. This problem concerns the graph of the equation $e^y = 2\cos(2x)$.

   (a) Use implicit differentiation to find $\dfrac{dy}{dx}$.

   (b) Use your answer from part (a) to find the slope of the tangent line to the graph at the point $\left(\dfrac{\pi}{6}, 0\right)$.

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   (a) Use implicit differentiation to find $\dfrac{dy}{dx}$.

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1. This problem concerns the graph of the equation $y\cos(y) = x^2$.

   (a) Use implicit differentiation to find $\dfrac{dy}{dx}$.

   (b) Use your answer from part (a) to find the slope of the tangent line to the graph at the point $\left(\sqrt{\pi}, -\pi\right)$.

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1. This problem concerns the graph of the equation $x\sin(y) = y$.

   (a) Use implicit differentiation to find $\dfrac{dy}{dx}$.

   (b) Use your answer from part (a) to find the slope of the tangent line to the graph at the point $\left(\dfrac{\pi}{2}, \dfrac{\pi}{2}\right)$.