Instructions: Show work and put a box around your final answer.

- 1. This problem concerns the graph of the equation $x^2 + xy y^2 = 1$.
 - (a) Use implicit differentiation to find $\frac{dy}{dx}$.

(b) Use your answer from part (a) to find the slope of the tangent line to the graph at the point (2,3).

 Name:
 MATH 200 – QUIZ 8 π^2

 Instructions: Show work and put a box around your final answer.
 March 14, 2013

 1. This problem concerns the graph of the equation $x^2y^2 = 9$.

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

(b) Use your answer from part (a) to find the slope of the tangent line to the graph at the point (-1,3).

Instructions: Show work and put a box around your final answer.

- March 14, 2013
- 1. This problem concerns the graph of the equation $2xy + \pi \sin(y) = 2\pi$.
 - (a) Use implicit differentiation to find $\frac{dy}{dx}$.

(b) Use your answer from part (a) to find the slope of the tangent line to the graph at the point $(1, \pi/2)$.

 Name:
 MATH 200 – QUIZ 8 π^4

 Instructions: Show work and put a box around your final answer.
 March 14, 2013

 1. This problem concerns the graph of the equation $y = 2\sin(\pi x - y)$.

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

(b) Use your answer from part (a) to find the slope of the tangent line to the graph at the point (1,0).