

Name: _____

1. This problem concerns the equation $\sin(x + y) = x^2$.

(a) Which of the following points is on the graph this equation? $(\pi, 0)$, $(0, \pi)$, (π, π)

(b) Find y' .

(c) For each point (x_0, y_0) from part (a) that is on the graph of $\sin(x + y) = x^2$, find the slope of the tangent line to the graph at that point.

Name: _____

QUIZ 13 ♣

MATH 200
October 19, 2022

1. This problem concerns the equation $e^{xy} - y^2 = x$.

(a) Which of the following points is on the graph this equation? $(1, 0)$, $(-1, 0)$, $(1, 1)$

(b) Find y' .

(c) For each point (x_0, y_0) from part (a) that is on the graph of $e^{xy} - y^2 = x$, find the slope of the tangent line to the graph at that point.

Name: _____

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

(a) Which of the following points is on the graph this equation? (π, π) , $(0, 0)$, $(\pi/2, 0)$

(b) Find y' .

(c) For each point (x_0, y_0) from part (a) that is on the graph of $\cos(x + y) = y^2$, find the slope of the tangent line to the graph at that point.

Name: _____

QUIZ 13 ♠

MATH 200
October 19, 2022

1. This problem concerns the equation $e^{xy} = y^3 + x^2$.

(a) Which of the following points is on the graph this equation? $(1, 0)$, $(0, -1)$, $(1, 1)$

(b) Find y' .

(c) For each point (x_0, y_0) from part (a) that is on the graph of $e^{xy} = y^3 + x^2$, find the slope of the tangent line to the graph at that point.