# Quiz 2 <br> MATH 1231 - Single-variable Calculus I <br> Summer 2016 

Total Points: 10
Total Time: 15 minutes

Name: $\qquad$ Date: $\qquad$
Read all of the following information before starting the quiz:

- Show all work, clearly and in order, to get full credit. I reserve the right to take off points if I cannot see how you arrived at your answer (even if your final answer is correct).
- Do not use calculators.
- Circle or otherwise indicate your final answers.

1. Find the slope of the tangent line at the point $\left(\frac{\pi}{2}, 0\right)$ to the graph of the following equation

$$
y^{2}+\cos (x+y)=x y
$$

2. Differentiate the functions (no need to simplify)
(a)

$$
f(\theta)=\sin (\theta) \cos (\sin (\theta))
$$

(b)

$$
g(x)=\frac{x \sin (x)}{1+\cos (x)}
$$

