

Name: _____

Math 151-02 Calculus I – Crawford

Quiz 2-C

03 October 2017

Books, notes (in any form), and calculators are not allowed. *Show all your work.* Good Luck!

1. (3 pts) If $\tan \theta = 5$ and $\pi \leq \theta \leq \frac{3\pi}{2}$, use a right triangle to determine $\sin \theta$.

2. (4 pts) Find all solutions to the following equation.

$$\tan(4x) = 1$$

3. (4 pts) Find an equation of the tangent line to $y = 2x + 4 - 7 \cos x$ at $(0, -3)$.

4. (4 pts) Differentiate the following.

[Do not simplify.]

$$y = ((3x^4 - 2x^3 + 2x) \tan(3x))^4$$