

Circle your Instructor:
Faudree, Williams, Zirbes

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Math 251 Fall 2017

Quiz #6, October 18th

Name: _____

There are 25 points possible on this quiz. This is a closed book quiz. Calculators and notes are not allowed. **Please show all of your work!** If you have any questions, please raise your hand.

Exercise 1. (4 pts.) Find $\frac{dy}{dx}$ by implicit differentiation for $\sin y = x^2 - y$.

Exercise 2. (6 pts.) Find the derivatives of the following functions.

(a) $f(x) = x \arcsin(2x)$

(b) $g(x) = \arctan(\sqrt{x})$

Exercise 3. (3 pts.) Find the derivative of the function $g(x) = \sqrt{\ln x}$.

