Quiz 5 Math 105, Fall 2018

Name: _____

- Keep phones off and out sight.
- No calculators, notes, books, or other aids.
- Do not talk during the quiz.
- Show all work.

Differentiation rules reference (this will not be printed on the midterm; include them on your note sheet!):

$$(f \cdot g)'(x) = f'(x)g(x) + f(x)g'(x)$$
$$(f/g)'(x) = \frac{f'(x)g(x) - f(x)g'(x)}{g(x)^2}$$
$$(f \circ g)'(x) = f'(g(x)) \cdot g'(x)$$

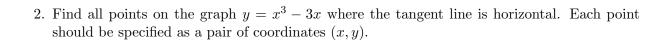
(a)
$$f(x) = 7x^3 - 2x + 3$$

(b)
$$f(x) = \frac{x+2}{x^2+3}$$

(c)
$$f(x) = \sqrt{5x - 2}$$

Friday 10/23. page 1 of 2

Quiz 5 Math 105, Fall 2018



3. Find an equation for the tangent line to the curve $y = x\sqrt{x}$ at the point where x = 4.

Friday 10/23. page 2 of 2