

QUIZ 4 - MATH 112

Friday, February 14

YOUR NAME: _____

George Voutsadakis

Read each problem **very carefully** before starting to solve it and do only what is asked. Each problem is worth around 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. [5 points] Compute the derivatives

$$(12x^5)' =$$

$$\left(\frac{1}{\sqrt[3]{x}} + 3\sqrt[5]{x^2} \right)' =$$

2. [5 points] Find an equation for the tangent line to

$$f(x) = x^3 + 2x^2 - 5x + 10$$

at $x = 1$.