QUIZ 4 - MATH 112   Friday, February 16

YOUR NAME:_____   George Voutsadakis

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

1. Find an equation for the tangent line to the graph of $f(x) = 3x^2 - \frac{2}{x}$ at $x = 2$.

2. Compute the following derivatives:

    (a) $\left[(x^5 - 4x^3)(\sqrt{x} - \frac{1}{\sqrt{x}})\right]' =$

    (b) $\left(\dfrac{x^3 + x}{x^2 - 2}\right)' =$