QUIZ 4 - MATH 112

Friday, February 13

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YOUR NAME:_____

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. Compute the derivative $f'(x)$ of $f(x) = (x + 6\sqrt{x})(x - 2\sqrt[3]{x})$ using the product rule and leave your answer in root (not exponent) form.

2. Find an equation for the tangent line to the graph of $y = \dfrac{5x + 3}{2 + x}$ at $x = 5$.