

QUIZ 4 - MATH 111

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. [4 points] Solve the absolute value equation

$$-5|3x + 7| + 3 = -72$$

by hand, showing all your steps.

3. [4 points] Find a formula for $y = f^{-1}(x)$ if $f(x) = \sqrt{3x - 2} + 7$.

3. [4 points] Sketch the graph of f^{-1} on the same coordinate axes as the graph of $y = f(x)$ shown below.

