QUIZ 3 - MATH 111 YOUR NAME:

Friday, February 16 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] Find a formula for $f^{-1}(x)$ if $f(x) = \frac{1-x}{2x+7}$.

2. [3 points] Suppose y = f(x) is specified by the following table.

Find the following values (showing all steps):

f(1) =

 $f^{-1}(1) =$

 $f^{-1}(f^{-1}(2)) =$

3. [4 points] Suppose a line ℓ passes through the points (-20, 3) and (10, 57). Find an equation for a line the is perpendicular to ℓ and passes through the point (-2, -5).