

Math 108
Quiz 2

Name (print) _____

Spring 2005

Work carefully and neatly. You must show all relevant work! You may receive no credit if there is insufficient work. NO GRAPHING CALCULATORS!

[6pts] 1. Let $f(x) = \begin{cases} x + 4 & \text{If } x < -2. \\ x^2 + 1 & \text{If } x \geq -2 \end{cases}$.

(a) What is $f(-1)$?

(b) Graph $y = f(x)$.

[4pts] 2. Graph the function $f(x) = 2x^2 - 4x - 6$. Include all intercepts and the vertex.