

Quiz 3

September 29, 2006

Name: _____

Note: Each problem is worth 25 points, so the maximum grade you can get is 100 points. *Good Luck!!*

(1) Solve the inequality $16x \leq x^3$.

(2) Solve the equation $3|x + 5| + 6 = 15$.

(3) Solve the inequality $|-2x - 1| \geq 2$.

(4) Sketch the region given by the set $\{(x, y) | xy > 0\}$.