

NAME:

Quiz 4 [25 pts]. June 18, 2007

Math 0115 Sec 0101 Summer 2007

Using the polynomial function $f(x) = (x - 1)(2x + 2)^2(2x - 1)^3$, answer the following:

[5 pts] 1. What is the leading term of $f(x)$?

[5 pts] 2. What is the y -intercept of $f(x)$?

[5 pts] 3. What are the zeroes of $f(x)$, and what is the multiplicity of each?

[10 pts] 4. Using the answers to questions 1-3, sketch the graph of $f(x)$. Be sure to pay attention to the end-behavior of the function and the behavior of the function at the x -intercepts.

