- 49. Use Closed Interval Method, in page 275.
- 53. Use the Quotient Rule for Differentiation and remember to consider boundaries.
- 56. As 53.
- 60. $\ln 2 \approx 0.6931$
- 62. $e \approx 2.71828$. You do not need to solve a numerical answer for f'(x) = 0. Using the equation directly and the fact that e^x is a one-to-one function.
- 63. Notice that f(x) is nonnegative and apply Extreme Value Theorem for f(x).
- 67. The function only has definition when $x x^2 \ge 0$. (explain why??)
- 78. f'(x) has only degree 2. How many roots does a polynomial with degree 2 have??