Exam 1 EC (Max 10 points)

Due in class 6/13/2018

Name:

NOTE: YOU MUST SHOW YOUR WORK TO RECEIVE FULL CREDIT. REMEMBER TO BOX YOUR FINAL ANSWER(S). THIS EXTRA CREDIT IS WORTH min(10,100-(Exam 1 Score)). IF YOU GOT AN A ON EXAM 1, YOU CAN ONLY GET A MAXIMUM SCORE OF 100%.

- 1. (5 pts) Differentiate $f(x) = \sqrt{3x}$ algebraically using limits.
- 2. (5 pts) Evaluate the limit, if it exists: $\lim_{x\to 4} \frac{\frac{1}{4} \frac{1}{x}}{4x^2 x^3}$. Show your work algebraically.