CS 311 HW Assignment 3 (Due by 9am on Feb 20th)

- 1. Given $f(n) = 2n^2 + 7n + 3$, answer the following questions by "yes" or "no". [10 points]
 - a. $f(n) = \mathbf{0}(n^2)$?
 - b. $f(n) = \Omega(n^2)$?
 - c. $f(n) = \Theta(n^2)$?
 - d. f(n) = 0(n) ?
 - e. $f(n) = \Omega(2^n)$?
- 2. Given $f(n) = 7n^2 + 2n + 1$, prove that $f(n) = \mathbf{0}(n^2)$. [10 points]

Submission

Submit the answers within one file (.pdf, .doc, .docx, .jpg, .png, etc.) to Cougar Course.

Grading

- 1. On Cougar Course, submit your answers in one file. Otherwise, we will not grade it.
- 2. Additionally, we will deduct 10% of the total points for each day after the due date.