CSci 1302 Assignment 12

Due Friday, May 1st in class or in Elena's office (Sci 2325) any time

Problem 1 (4 points). Prove each of the following, using the definitions of O, Ω, and Θ:

1. $\log_2 x + 3$ is $\Theta(\log_2 x)$

2. $\log_2 x$ is $\Omega(10)$

Problem 2 (6 points). Exercises 3 and 5 p. 540.

Problem 3 (9 points). Exercises 10, 12, 16 p. 541.

Problem 4 (4 points). Exercises 4, 5b, 6b p. 569.

Problem 5 (9 points). Exercises 2, 8, 19 p. 582-583.

Problem 6 (6 points). Exercises 17, 19, 22 p. 593.