Name:	Student	#: Date:	

COMP 2711: Discrete Mathematical Tools for Computer Science

In Class Exercise #17

- 1. Find the least integer n such that f(x) is $O(x^n)$ for each of these functions.

- (a) $f(x) = 2x^2 + x^3 \log x$ (b) $f(x) = 3x^5 + (\log x)^4$ (c) $f(x) = (x^4 + x^2 + 1) / (x^4 + 1)$ (d) $f(x) = (x^3 + 5 \log x) / (x^4 + 1)$