

## INFORMAL COURSEWORK 2

- (1) Show that  $n^2 + 7n + 4$  is in  $O(n^2)$ .
- (2) Show that  $3\log_4 n^3 + 5$  is in  $O(\log_2 n)$ .
- (3) Show that  $7n^2$  is in  $O(n^3)$ .
- (4) Is it true that  $n^3$  is in  $O(7n^2)$ ?