cmput 204 seminar 5 2014

Define, for all $n \ge 2$, $T(n) = 3T(n/2) + n^2$.

By hand, as in the lecture, solve the recurrence relation

Make the usual simplifying assumptions: T(1) = 1, $n = 2^k$.

First, find a closed form solution for T(n), as a function of k and/or n.

Then, give a Θ form solution for T(n), as a function of n.