

CSE 3101, Summer 2013

Tutorial 5

June 5, 2013

1. Solve the following recurrences.

(a) $T(1) = 1$ and for all $n \geq 2$, $T(n) = 2T(n-1) + n^2 - 2n + 1$.

(b) $T(1) = 1$ and for all $n \geq 2$, $T(n) = nT(n-1) + n$.

(c) $T(1) = 1$ and for all $n \geq 2$, $T(n) = \sum_{i=1}^{n-1} T(i) + n^2$.