CS/DSA ALGORITHM ANALYSIS

Homework 8, Due on Nov 7, 2019.

1. $A = \begin{bmatrix} a_{11} & a_{12} \\ a_{21} & a_{22} \end{bmatrix}$ $B = \begin{bmatrix} b_{11} & b_{12} \\ b_{21} & b_{22} \end{bmatrix}$. Multiply this by using strassen's and verify that you get the same result if you use the standard method.

2. Solve $T(n) = 7T(n/2) + n^2$ when $n = 2^k$, T(1)=1.

3. Solve $M(n) = 7M(n/2)$ where M(1)=1.