Assignment 2
Due 9/25/2018

Give a solution in asymptotic notation for each of the following recurrences:

1. $T(n) = 3T(n/2) + n^2/\lg n$.
2. $T(n) = 2T(2\sqrt{\lg n}) + \lg \lg n$. (Hint, consider $n = 2^{2^m}$).
3. $T(n) = T(n - 2) + n^2$.
4. $T(n) = T(n - 1) + 2^n$.
5. $T(n) = 2T(n/3) + \sqrt{n}$.
6. $T(n) = 3T(n/3) + 1$. 