## Spring 2021 Algorithms and Analysis Tools Exam, Part A

3) (10 pts) ANL (Recurrence Relations)

What is the closed form solution to the following recurrence relation? Please use the iteration technique, show all of your work and provide your final answer in Big-Oh notation.

$$T(1) = 1$$
  
 $T(n) = 2T(n/4) + 1$