Quiz 5 - Math 374, Frank Thorne (thorne@math.sc.edu)

Friday, September 29, 2017

- (1) A function T(n) is defined on integer powers of 2 by the following recurrence:
 - T(1) = 3, and
 - T(n) = T(n/2) + n when $n \ge 2$ and $n = 2^m$ for some integer m.

Obtain a closed-form formula for this recurrence. Prove your claim.