

# Untitled

a)  $T(n) = 3T(n/2) + n$

Answer-  $T(n) = 3T(n/2) + n \Rightarrow T(n) = \Theta(n \lg 3)$

b)  $T(n) = 64T(n/8) - n^2(\log n)$

Answer = NA

c)  $T(n) = 2nT(n/2) + n^n$

Answer= NA

d)  $T(n) = 3T(n/3) + n/2$

Answer=  $T(n) = \Theta(n \log n)$

e)  $T(n) = 7T(n/3) + n^2$

Answer =  $T(n) = \Theta(n^3)$