Find the time complexity of the below functions in Θ form. Write NA if the function does not

apply to any case.

a) T (n) = 3T (n/2) + n = **Θ(nlog23).**

b) T (n) = 64T (n/8) − n^2(log n) = **Θ** ( n2log 1/n)

c) T (n) = 2nT (n/2) + n^n = Does not apply

d) T (n) = 3T (n/3) + n/2 = **Θ** (n logn)

e) .T (n) = 7T (n/3) + n^2 = **Θ(n^3)**