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

b) T (n) = 64T (n/8) − n^2(log n)

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

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

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

Answers:

a) Θ(n^log3[base2])

b) NA

c) NA

d) Θ(n log n)

e) Θ(n2)