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(n^log3) (Case 1)

b) T (n) = 64T (n/8) − n^2(log n) = NA (f(n) is not positive)

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

d) T (n) = 3T (n/3) + n/2 = Θ (n log n) (Case 2)

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