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

1. T (n) = 3T (n/2) + n

Answer : Θ(n)

1. T (n) = 64T (n/8) − n^2(log n)

Answer : Θ(n2 log n)

1. T (n) = 2nT (n/2) + n^n

Answer : NA

1. T (n) = 3T (n/3) + n/2

Answer : Θ(n log n)

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

Answer : Θ (n^3)