**Time complexity**

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 log2 n)**

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

Answer: Not Solvable using master theorem

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

Answer: **Θ(n log n)**

e)  .T(n)=7T(n/3)+n^2

Answer: **Θ(n2 log n)**