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:**

1. **Ɵ(n^log2{base3})**
2. **Ɵ(n^2 logn)**
3. **Ɵ(n^n)**
4. **Ɵ(nlogn)**
5. **Ɵ(n^log3{base7})**