PART 1

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

Answer: Θ(n^log23)

b)T(n)=64T(n/8)-n^2(logn)

Answer: Θ(nlogn)

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

Answer: Θ(n^2)

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

Answer: Θ(n)

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

Answer: : Θ(n^2)

Θ