Answers:

1. T(n)=3T (n/2)+n = Θ(nlg 3)
2. T(n)=64T(n/8)−n^2(log n) = Θ( n2 log n)
3. T (n) = 2nT (n/2) + n^n = N.A
4. T (n) = 3T (n/3) + n/2 = Θ(n log (n))
5. T (n) = 7T (n/3) + n^2 = Θ(n2)