1. a)  T (n) = 3T (n/2) + n   
     
   Solution: T (n) = Θ(n^log 3 base 2 ) (case 3)
2. b)  T (n) = 64T (n/8) − n^2(log n)   
     
   Solution: N.A
3. c)  T (n) = 2nT (n/2) + n^n   
     
   Solution: N.A
4. d)  T (n) = 3T (n/3) + n/2   
     
   Solution: T (n) = Θ(n log n) (case 2)
5. e)  .T(n)=7T(n/3)+n^2   
     
   Solution: T(n) = Θ(n^2 ) (Case 1)