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

Time Complexity = Ɵ (nlog b [base a] ) or Ɵ (nlog 2 [base 3] )

b) T (n) = 64T (n/8) − n^2(log n)

Time Complexity = Ɵ (nd logn) or Ɵ (n2 logn)

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

=> N/A

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

Time Complexity = Ɵ (nd logn) or Ɵ(nlogn)

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

Time Complexity = Ɵ (nd) or Ɵ (n2)