a) T (n) = 3T (n/2) + n 🡺 T (n) = Θ(n^lg^3 )

b) T (n) = 64T (n/8) − n^2(log n) 🡺 Answer cound not be in Θ as master theorem does not applied

(f(n) is not positive).

c) T (n) = 2nT (n/2) + n^n 🡺 Answer cound not be in Θ as master theorem does not applied

(a is not constant).

d) T (n) = 3T (n/3) + n/2 🡺 T (n) = Θ(n log n)

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