Solution to master theorem for AlgorithmsAssignemtSolution

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

solution

T(n)=Θ(n)

b)T(n)= 64T(n/8)-(log n)

Solution

Master theorem cannot be applied as f(n) is not positive.

So no solution by master theorem.

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

Solution

Master theorem cannot be applied as ’ a’ is not constant. Here a=2n.

So no solution by master theorem.

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

Solution

T(n)=Θ(n log n)

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

Solution

T(n)=Θ()