Assignment 2 Srihita Maturu

1. T(n)=3T(n/2)+n

Solution

T(n)= **Θ** (n^(log 3 base 2))

1. T(n)= 64T (n/8) − n^2(log n)

Solution

Not applicable as f(n) is not positive

1. T(n)= 2nT (n/2) + n^n

Solution

Not applicable as a is not constant

1. T(n)= 3T (n/3) + n/2

Solution

T(n)= **Θ** (nlogn)

1. T(n)= 7T (n/3) + n^2

Solution

T(n)= **Θ** (n^2)