**Master’s theorem Solution:**

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

Ans.🡪 **T (n) = Θ(nlog 3)**

1. T (n) = 64T (n/8) – n2 log n

Ans. 🡪NA

Master Theorem **does not apply** as f(n) is not positive.

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

Ans. 🡪 NA

Master Theorem **does not apply** as a is not constant.

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

Ans. 🡪 **T (n) = Θ(n log n)**

1. T (n) = 7T (n/3) + n2

Ans. 🡪 **T (n) = Θ(n2)**