Master Theorem Solution

1. T (n) = 3T (n/2) + n; Solution: T(n) = Θ (n^log3 [base 2])
2. T (n) = 64T (n/8) − n^2(log n); Solution: T(n) = Θ (n^2 \* log n)
3. T (n) = 2nT (n/2) + n^n; Solution: T(n) = Θ (n^n)
4. T (n) = 3T (n/3) + n/2; Solution: T(n) = Θ (n \* log n)
5. T (n) = 7T (n/3) + n^2; Solution: T(n) = Θ (n^2)