**Master Theorem Solutions**

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| a) T (n) = 3T (n/2) + n | T(n)= Θ(n^log3 {base 2}) |
| b) T (n) = 64T (n/8) − n^2(log n) | T(n)= Θ(n^2(logn)) |
| c) T (n) = 2nT (n/2) + n^n | NA |
| d) T (n) = 3T (n/3) + n/2 | T(n)= Θ(nlogn) |
| e) T (n) = 7T (n/3) + n^2 | T(n)= Θ(n^2) |