

Courseware

Updates & News

Calendar

Wiki Discussion

Progress

PROBLEM 3 (10/10 points)

For each of the following expressions, select the order of growth class that best describes it from the following list: $O(1), O(\log(n)), O(n), O(n\log(n)), O(n^c)$ or $O(c^n)$. Assume c is some constant.

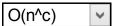
Clicking Check will grade ALL the sub-problems. You have 2 attempts for this problem.

1. 0.0000001n + 1000000

2. $0.0001n^2 + 20000n - 90000$

3. $20n + 900\log(n) + 100000$

4. $(\log(n))^2 + 5n^7$



5.
$$n^{200} - 2n^{30}$$

6.
$$30n^2 + n\log(n)$$

7.
$$n \log(n) - 3000n$$

9.
$$5^n + n^5 + n + 5$$

10.
$$n\log(n) + n^2 + n + \log n + 1 + 2^n$$



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