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Problem 3

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Problem 3

10 points possible (graded)

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




▼ **Week 6:**
Algorithmic Complexity


11. Computational Complexity

[Finger Exercises](#) 

12. Searching and Sorting Algorithms

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Problem Set 6

[Problem Set due Mar 9, 2017 15:30 PST](#) 

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Plotting

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

Select an option ▼

8. 3

Select an option ▼

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

Select an option ▼

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

Select an option ▼

Submit

You have used 0 of 2 attempts

Problem 3

Topic: Problem Set 6 / Problem 3

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