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Problem 3

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Problem 3

10/10 points (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

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

\bot . $0.00000011l$ \pm 1000000	1.	0.000001n +	1000000
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		1
O(n)	~	~

$$2.0.0001n^2 + 20000n - 90000$$

O(n^c)	~	-
O(11 C)		•

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

O(n)	~	~
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$$^{4\cdot}\left(\log\left(n\right)\right)^{2}+5n^{7}$$

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

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

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

8. **3**

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

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

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You have used 1 of 2 attempts

Problem 3

Topic: Problem Set 6 / Problem 3

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