Course is completed. The course result can no longer be changed.

⌂ Asymptotic Notation

Asymptotic Notation 🔖

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Quiz

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Now, it's time for a short quiz to recap what you've learned. The quiz is **graded**, so you can take it only once. Each question will be followed by feedback explaining why your answer is right or wrong. If your answer is incorrect, you will see a suggestion of what you might need to refresh your memory.

Good luck!

Read the question below and select the correct answer. Then, click "Submit."

For a given function $g(n)$, what is the correct definition of $O(g(n))$?

- ○ $O(g(n)) = \{f(n) :$ there exist positive constants c, n_0 such that $0 \leq g(n) \leq cf(n)$ for all $n \geq n_0\}$
- ⦿ $O(g(n)) = \{f(n) :$ there exist positive constants c, n_0 such that $0 \leq f(n) \leq cg(n)$ for all $n \geq n_0\}$
- ○ $O(g(n)) = \{f(n) :$ there exist positive constants n_0 such that $0 \leq f(n) \leq g(n)$ for all $n \geq n_0\}$

✔

Correct: Great job!

Submit   You have used 1 of 1 attempt

*Read the question below and select **all** the answers that are correct. Then, click "Submit."*

Which TWO of the following statements are correct?

- ☑ $3n^5 + 2n^3 + n \log n = \Omega(n)$
- ☑ $3n^5 + 2n^3 + n \log n = \Omega(n^3)$
- ☐ $3n^5 + 2n^3 + n \log n = \Omega(n^6)$
- ☐ $n = \Omega(n^2)$

✔

Correct: Well done!

Submit   You have used 1 of 1 attempt

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