Quiz 1

	on Thursday, 5 April 2018, 4:28 PM PDT
	ate Finished
Completed	on Thursday, 5 April 2018, 4:32 PM PDT
Time ta	
Gr	ade 0.87 out of 1.00 (87%)
Question 1	Which of the following holds for f, g; select all options that apply: $f = n - 100$, $g = n - 200$.
Partially correct	
0.07 points out of 0.20	Select one or more:
	a. $f = O(g)$
	\checkmark b. f = Omega(g) \checkmark
	c. f = Theta(g)
	Your answer is partially correct.
	You have correctly selected 1.
	The correct answers are: f = O(g), f = Omega(g), f = Theta(g)
Question 2 Correct	Solution to the recurrence $T(n) = 2T(n/4) + O(n)$ is:
0.20 points out of 0.20	Select one or more:
	🗹 a. O(n log n) √
	b. O(n^2)
	c. Omega(n log n)
	d. O(n)
	Your answer is correct.
	The correct answers are: O(n log n), O(n), O(n^2)
Question 3	Solution to the recurrence $T(n) = 5T(n/4) + n$ is:
Correct 0.20 points out of 0.20	
	Select one:
	a. Omega(n^2)
	b. Omega(n^(1.5))
	c. Omega(n^1.33)
	• d. Omega(n^1.1)
	Your answer is correct.
	The correct answer is: Omega(n^1.1)
Question 4	Which of the following holds for f, g; select all options that apply: $f = sqrt(n)$, $g = n^{1/3}$.
Correct	
0.20 points out of 0.20	Select one or more:
	a. $f = O(g)$
	b. f = Theta(g)
	\checkmark c. f = Omega(g) \checkmark
	Your answer is correct.
	The correct answer is: f = Omega(g)

4/5/2018

Quiz 1

Question 5 Solution of the recurrence $T(n) = 13 T(n/3) + n^3 is$:

Correct 0.20 points out of 0.20

t Select a

Select one: ◉ a. O(n^3) ✔

b. O(n^(2.67))

c. O(n^2)

d. O(n^(13/3))

Your answer is correct.

The correct answer is: $O(n^3)$