文本

描述已自动生成Question 1

The most of time will be on the fist one for because he need check each one of the math expression and during the for also have a lot of if that if also the time spend point.

Question2

(a) (65n4 + 2n + 3)/(n + 1) = Θ(n3) [2 marks]

The largest element is 65n^4/(n+1) in this math expression that meaning n’s degree is 3 and we need ignore the coefficients that meaning that will be equal to n^3 and that meaning its is equal to the theta(n^3), so that is true

(b) 21nlogn+2n+1=Θ(nlogn)[2marks]

That is same with (a) the 21nlogn is the largest element in this math expression and we also need ignore the coefficient too that meaning we will get the answer is equal to theta(nlogn), so that is true

Question3

(a) n2 = Θ(log n)

By the step of question the answer od n^2 should be theta( n^2 ) and on the other hand n^2 and log(n) not the relationship of f(n) and theta(n)

(b) nn = Θ(2n) [3 marks]

For this question I think he have a special n that is 2 but when n > 2 f(n) != theta (n)

文本

描述已自动生成Question 4