Assignment #5

Q1 Equation double sum triples (double array []/int n) time complexity double sum = 0; 1- 1 2- 7/3 + 1 for (int i=0; i(n; i=i+3) sum = sum + array [i] 3. 7/3 4. 1 return Sum; 3 Executes Line 25 Line 3: Executes one less than. Line 2 = 11/3 2 $= \frac{1}{3} + 1$

[Q2]	double sum exponentials (int n) { int sum = 0;	Time complexity
72.	for (int i=1; i <n; 1;<="" i="1" sum="sum" th="" x2)=""><th>2. log_2n+1 3. log_2n</th></n;>	2. log_2n+1 3. log_2n
The state of the s	return sum;	4. 1

Line 2:
$$n \in \mathbb{R}$$
 [Executes]

2 2 = $2 = 200 \times 1$

2 3: $2 = 200 \times 1$

8 4

[Q3]	[Equation]	time complexity	
Processor Co.	for (int i=0; i < 10; i++)	7	
	for (int j=0; j kn);		
3	cout << 1 << "; "<< ; <<		
<i>J</i> ,		2. (0(11)	
		1	
	Line 1: Loops 10.+ 1		
4	. to make statement	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Nort	false = cine = [1]	2 3 = 10	
1.	exe - [11]	3 4	_
		4 5	
		5 6	
	Line 3: n+1-1;	executes one rest	
	,		
04	[Equation]	time complexity	Control of the Contro
1-			
2.			
3.			
	COMMITTER	3. (1)(1)	
Notice consult Francis			
	line 1:: n executes Liv	ne 2: n executes	
V' -			
Moth.	1 2	1 2	
18	$2 3 = \lfloor n+1 \rfloor$	$2 \mid 3 = \lfloor n+1 \rfloor$	
	3 4	3 4	
	4 5	4 5	
	5 6	5/6	
	C. S.		
	Line 3: Line 3 e	xecute one 1855,	
	n+1-1=[n]		

