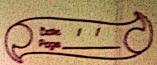


lan .	101/8/02	18	
4	Given f(a) = 16.22 + 10?	6.	Given
	$\frac{1ct}{c} + \frac{f(n)}{6} + \frac{n^2}{2n}$ $\frac{for n_3 l}{6r n_3 2} + \frac{c \gamma_1 6 \beta_1}{6r n_3 2} + \frac{c \gamma_2 6 \beta_1}{6r n_3 2} + \frac{c \gamma_1 6 \beta_1}{6r n_3 2}$		
	for n=4 C76+9127		
	Thus, 6.27+n2 < 721 n74:		Ome
5. 0	niver $3n+5 = 0(2^n)$ Let $f(n) \le c \cdot 2^n$		
	3n+5(C.2n C > 3n+50 2n 2n C > 2n		Cive
	For n=2, C7 30 1.5 +1.25 = 2.75		
	Hence, it is correct that 3n-15-20(21) n>1 with c= 4.		
	3167 15016 A 300 HOLD		



	Q= <u>"</u> "Q"
6.	Given f(n) = n4+n+6
	let nymas :< Car
	G71+11+6
<u> </u>	
	hor no=6, 43,8
	for no=2, 16 7/1+ 1/8+6/16
	Hence, it is O(14)
	Hence, it is O(14)
	SKAV TAZILGE ZFAFA JAN
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Omega Notation
	(1. M) c o
4	Given HD=60+2
-	(niver the)=6n+2 let f(n) > c g(n) 6n+2 > q Then, hor n=1: Q=8,0; Hence, it is sr(1)
	TI C C C
-	Then, hor n=1 . 4=8,00
	runce; H & JL(1)
7	C1. PC1 15 21 2 2 2
<u></u>	Given $f(n) = 10n^2 + 3n + 2$ let $f(n) > C_1 n$ $10n^2 + 3n + 2 > C_1 n$ $C_1 < 10n + 3 + 2$
	1et +(n) > C,12
	10073072760
	G (10n+3+2
.	for no=1, 9 < 15 for no=2, 9 < 20+3+1 &= 24. Hence, it is so(n)
	tor no22, G<20+3+1 8=24.
	Hence, it is show
-	
11	

			Ample State
	Q=20		
phi co	WALK TO THE REAL PROPERTY OF THE PERSON OF T		
and the same	3: Given f(n)= n3+n+5	-	
	10+ +10/		100-1
No. of Parties	CC D+ 1+ 5		lot
Jana .		-	182
and the second	for n=1, c= c= 1+1+5=7	1	
		-	
~	for 9=2, G 3+0.33+0.55=3.9		
~			
~:	Hence, n3+n+5 > 3.7502 Vazz		
¬	Hune, A is a se (n2)		
			100
· 		-	
4:	Given 2n2+nlogn+1		
	let f(n). >, gnlogn		
	2n2+nlogn+1> Cnlogn	2	et
	G X 2n-+ n=1	_	
	loge nloge		
	for n=2 q < = 5.5		
		_	
	Hence, flot > 5 Salaga		
	it K Deficion	-	
		-	
	10-6 1454-7	-	
	The state of the s		
77.7			
Personal		Market Property Control	

13		Dos 1	a
1		(Prop. 1	
1	Participated Comme	Theta plotation	1
1		let 5 do 6	
1	-\		
		Gn 570+1510 5,000	
		n.	
		For no=1510, 6= 10 for n=1, c27,7	11610
		1839	713
	COLUMN COLUMN STATE COMMENTE	9×3+1510	
-		Least no so	
-	777 St. 1278 St. 147 S	for no=1510, q=860. 8 for no=1, q<	74500
		(7+15) ~ 20 < 70+15.10 < 20 (7+150) ~	
grad season and production of the		Hence it is $\Theta(n)$	
	2.	let (Sales 2 to 1)	
	2	$C_1 n^2 < 80^2 + 4nt > < C_1 n^2$	
		$4n^{2} < 8n^{2} + 4n+2 < 4n^{2}$ $5 > 8 + 4 + 2$ $5 > n = n^{2}$	
-			. i.
-		For nzl, G.7, 14. For Also, G. 12 < 802+40072: G 5: 8+ 4+2 + 7	6
_		FOR Also, GAZ & 802+40072:	40 g
_		GS, 8+ 4+2 +	
		- Low physical in single of the salt	
_		horing = 1. G < 18.8	
_		Hence, 8021 802+40+2 < 1402	
1		For in 3 1 1 1 1 1 1 1 1 1 1	
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in the second			
A 117			
	not make		
-500 S-=	1.15602	1	
3.	let . Gn2 < 2n2+nlogn+1 < Gn2.	1:1	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- Gu	7	
	Gn ² < 2n ² + nlognt	1	
- m m - m	G-for n=no Vio 21,	$\mathbb{T}$	
- Trans	G-for h=10		
	922. 2n2 2 2n2 + mognt		
-415-10	2n2 2n 7mogra	$ \longrightarrow \mathbb{H} $	
	Alala		
_~~~	Gn. 7 2n2+nlognt		
	Co > 2 + logn+1	+	
-7+15°	67,2+logn+l		
	1 - 2		
	n21, G > 2+125		
_~~~	1022 1627 2+0:5+0:25,22.95		
	Hence, with world		
	202 < 204nlogn+1 < 302		1
	Thus, it is $\Theta(n^2)$ .	1	
	-005 5 My -00 > -00		
	2:278 - 7		
4: 11	et -a		
2	COS 30+6 Signality, one of the control of the contr		
11-1	Have the state of the state of the	_	
- T	ine nght inequality,	+	
**- <u>-</u> -	673146		
·~	The right side is growing inhinitely and Cz cannot contain it.		
~~	Co congret color in Martely and		
	Hence it is not ACI	_/_	
	Hence, it is not O(1)		
~			
T			
		$\mathcal{I}$	
7		/_	

	-	
17		
11		Dote / / Do
/=		Poge
1-		let
/-	5,	
/-		Examining the left side inequality,
/-		ine left side inequality,
		$C \leq 4 + 2$
		$C_1 \leq \frac{4}{n} + 2$
	$-\parallel$	for not 456
_	$\parallel$	for no=2 C1 < 2+0.5=3
_	$-\parallel$	by no23 G S 1.33 + O.22 \$21.55
_	$-\parallel$	Hence, the left side is strinking inhinitely.
	$-\parallel$	
_	$-\parallel$	Thus, it is not $O(n^2)$
	$-\parallel$	
		\et
1	1	1et 1,00001 / 7 O / C 51,00001
-		G N1,00001 € 7++ 8 € G N1,00001
	-	Here, for G 715,  7n+8 \( \int_{0.00001} \) \( \text{N} \) \( \tex
_	$\parallel$	for (1 7 + 0
		n 0.00001
		No matter how small, right side is shrinking indefinitely.
		flence,
		it is not $O(n^{1.00001})$ .