	CH08-320201					HUZE	eufatlashim
	Algoriuhuns GrDataStructures.						O Jymirs
	Homewonk#2	1.1	116+1	3/11/1 +	(ан.) та =6	HIT	16
					14000 17-11		
	Problem 2.2 Recurrences.						
a)	T(n) = 36T(n/6) + 2n.						
-	:. Mastermethod since of th)+f(n).	t (nVC)T	¥ .	
	\Rightarrow $n^{1}\log_{6}(a) = n^{1}\log_{6}(a)$	$36 \Rightarrow \eta^2$		+0.	= ", yy	MA	
1	f(n) = an						
	Since of it is a supremer to the little of the part of the part of the supremers of the sup						
	2n < n²			(a,) 9 = 6	I I	
J	since the function f(n) is poly	nounally small	er than	n' loan	a	1	
	$T(n) = \Theta(n^2)$			-			
		51(3)	+ (ah. E)	T. (5)= T(2H)	1)[[9
	Yes	Harmen St.					
Ы	$T(n) = 5T(n/3) + 17n^{4-2}$		· ·	11	H .		
	master method.	, 1 * 3 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 ·	1				
	$f(n) = 17n^{1-2}$	(n)		to the	- 73		-
	$n^{\lambda}\log_{\theta}^{\alpha} = n^{\frac{1-469}{2}}$		7		¥		
	2. f(n) < n1.469	(ptr.		- do	,		
	$=$ $T(n) = \Theta(n^{1.965})$	1, 1	45		1 de -	170	
			$(ngolar)\Theta = 0.77$				
<u>c)</u>	$T(n) = 12T(n/2) + n^2 lgn$				100		
	$n' \log_b \alpha = n^{3.785}$	* A * G.			A STATE OF THE STA		
	$f(n) = n^2 \lg n$	1 7		100	d'in		
7	since. nalogoa > fin	, sh		<u>166.</u> 1			
	$T(n) = \Theta(n^{3.585})$						
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	4					1	
		-			-	-	
	11						

