FO-Blatt 2 25% 124 45 到。 300 11 ling attest = (2) 5 ( (1) ) 5 ( (1)

ha This - him 17+12+45 - 84 685 -> J(m) + O(16)) ~ =7 g(n) e o(1) 2) (h)= h3 gla) = 5 m + 12 m + 5 m + 5 no : 11 C= 1 ∀n ≥ no : g(n) ≥ c· F(n) 1. A: N= 1 5+12+3+5 24 25 21 1. V: 22 Unt 10 : year 2 f(m) & g(n+n) 2 Hora) 5 (may 3 + 12 cm m) + 3 (m + 1 + 1 > 2 10 503 +17 m + 7 m+5 2 m 4n3 + 12n7 + Sats 20 7 gal ( 12 (164)) 5(n3+3n3+3n+n) +12(n+1) +3(n+1) +5 2 (n+1) 3 5(n3+3n3+3n+n) +12(n+2n+n) + 3n+3+5 2 n2+3n2+5n+n 5n3+3n+3h+12n2+3n+5 +24n+n 2 n3+3n2+3n+n 5n3+12n2+3n+5 +24n+n 2 n3+3n+5

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269 + 24 n+ 14 2 flu) gitt levt I.V. But 3) 11501 = 2001 lin 3(n) = lon 2n = = lin 2 2 = 2 43 =) g(m) & U+(m) =) 2 mm & U(2) ii) ful= Zin ling fly = lin 22 = lin (22) h Sh-1- 2" = lin 2" = 0 =) g(n) & o(6) -> 22m & o(2°) The Stay of the St 

· X

VA

(2) 5) 1) g(m) = 2" S(u) = 10 n! Um (w) = lum 2 = 0 => fu) E U HW => 2" & ( (h!) 4) jl) = n! flula un hu gh) - hi = 0 - 1 1 + U(p") 6) ght = 6 -5 1,25 12 m = lu ( " = it lu ( " = ) 2 => @ 3(1) ¢ o(a) 4) 1) tz. (glu') (o (n logn) log(n!) = E (out) log() = En log() = mlogn => los(n)) + O(n ly6)) 2) 72. (ylul) + R(u logu) | Control | Con

4) Alterative as tot: 19 (n') = lofoztu (e) ) Stiling - Former = = 2 lay(201) + 2 lay(n) + h (loy(n) - loge)) € 0(n) € 0(n) =) by( 1:1 € U(n. log(61)) (4) 3) T(1)=1 T(2)=2 T(3)=1 T(h) = 2T (n-1) + h2 bu @> 3 T(1)= 2T(1,-1) + 4 = 2(2T(u-1-1)+(u-1)2) + 42 = 2 (2(2T(u-1-1-1)+(u-1-1)2)+(u-1)2+42 = LT (u-i) + 2 2 (1-6)2 Einselle: T(-1= 2"-7 (u(b-3)) + \(\bigz\) 2" (u-b)2 [Beobachtung: TWE Q(2"), Tent & 5(2" p") ?] 22" (n-4)2 = 2", 1 2 + (n-012 + -.. + 2"-" = \( \frac{1}{2} \) \( \frac{1} \) \( \frac{1}{2} \) \( \frac{1}{2 -> Quotex hoterium: a= am bring e 1 Contino = = = = = (60)

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0

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(a) 
$$T(n) = n$$

The surpress  $T(n) = 4T(\frac{n}{2}) + n$ 
 $T(n) = 4T(\frac{n}{2}) + n = 4(4T(\frac{n}{2}) + \frac{n}{2}) + n$ 
 $= 4(4(4T(\frac{n}{r}) + \frac{n}{4}) + \frac{n}{2}) + n$ 
 $= 4T(\frac{n}{2}) + \sum_{n=0}^{2n} 4^n - (\frac{n}{2})$ 
 $\frac{n}{2^2} = 1$  (a)  $n = 2^i$  (3)  $\frac{n}{2^n}$ 
 $\frac{n}{2^n} = 1$  (b)  $\frac{n}{2^n} = 1$  (c)  $\frac{n}{2^n} = 1$  (d)  $\frac{n}{2^n} = 1$  (e)  $\frac{n}{2^n} = 1$  (f)  $\frac{n}{2^n}$ 

AD- BLAHZ

18.10.17 AF Soviel ist sicher.

3) 22. VUEN: Alu) - 8-9 = Alum) - 8-17 - 7 mm PLAT = 17 - 1 - 2 - 2 - 2 - 17 - 1 1.V. +22 tours (491)- 4 - 4 -) +6+1 - 10 - RAMPAGE (1+ 1) = 8 (1+ 1) De geldere Shitt: \$ - C+15 (2) \$ -1 = \$ 5 = 1 E (x) - E (g) = x+1 - 711