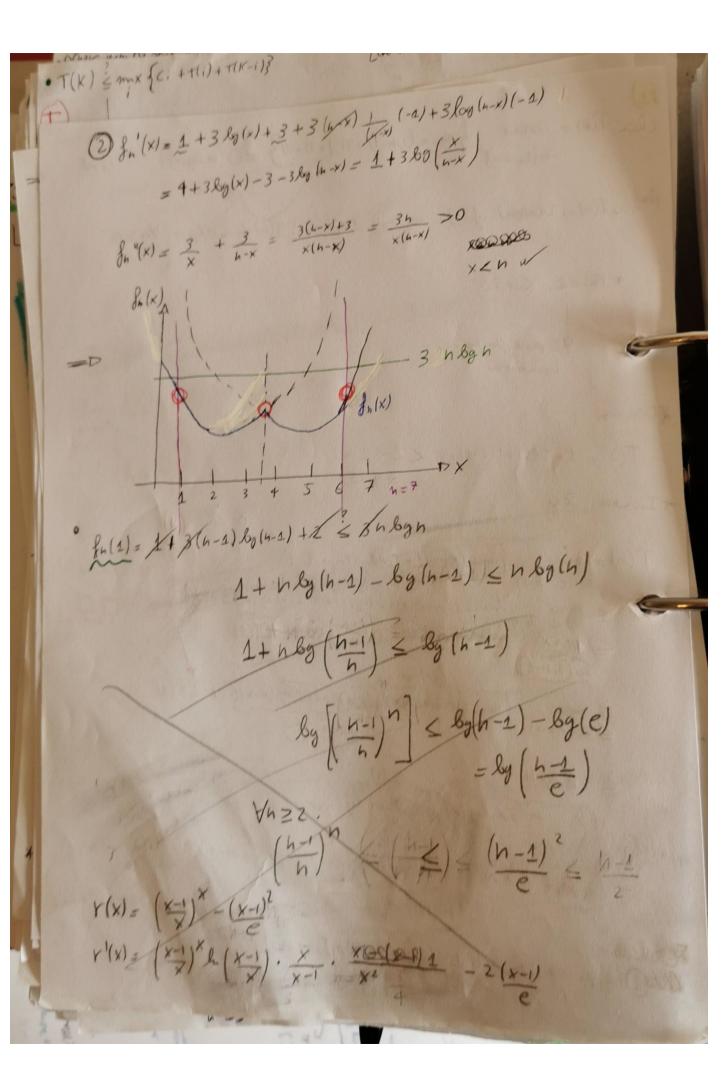
P1) T(n) = max {min (i,h-i) +T(i)+T(a-i)} = 0 (nlgn) And: This O(wen) of Ico ... In s.t. This chego Yuzh · 16:=2, C:=3 * Bose cose T(2) = 1+T(2)+T(2-1)=3 < 2.3.2 ln2 T(h) = max { min (x,h-x) + T(x)+T(h-x)} xe {1,...,h-1} = max xe {1,...h } { min (x,h-x) + 3x log(x) + 3 (h-x) & (h-x) & +2T(1) = max {min (x,n-x)+3x kg(x)+3(n-x) kg (n-x)} + 2T(1) xe(1,1-1) 8) 23h 89h In(N)= | X + 3x by (x) + 3 (n-x) by (n-x)+2 1≤x ≤ 1/2 h-x + 3 x lg (x) +3 (h-x) ly (h-x)+2/h=x = h-1 x+3(n-x)2y(n-x)+3 x lg(x)+2 Oberation: Dhn, go are sym write in (i.e. gn(x) = fr (x+h)) x+3xhx +3(4-x) hh-x)+2



$$\frac{(n-1)^{n-1}}{n^n} \leq \frac{1}{2} \times 0.367$$

$$\frac{(n-1)^{n-1}}{n^n} \leq \frac{1}{2} \times 0.367$$

$$\frac{1}{2}(x) = x \cdot 2(x) - 2 - x \cdot 2(x-1) + 2(x-1)$$

$$2^{(1)} = 1 + 2(x) - 2(x-1) + 2(x-1) + \frac{1}{x-1} = 4 + 2(\frac{x}{x-1}) + \frac{1-x}{x-1}$$

$$= 2 \cdot 2(x) + 2(x) - 2(x-1) + 2(x-1) + 2(x-1) + 2(x-1) + 2(x-1)$$

$$= 2(x) + 2(x) - 2(x-1) + 2(x-1) + 2(x-1)$$

$$= 2(x) + 2(x) 2$$