Date: / / Page No. Howbo Guess and hoone? and Masteris The over * Gues and Prove. Works Notworks QT(n) = T(y)+n QT(n) = 4T(y) +n T(1)2A T(1) 21 assume T(n) < ch assume T(n) < Ch Base core: Bore cope W21 T(1) < C Induction. usty ? uduation, T(n) 2 4. Cy th cessim that lemne notes for n = n (2cH) 1(N) 2 1(N) +N 2cm < C LLNJ = CH+N < cn(210) 7-1-5 C 22

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Masters Theorem

Let T(n) be a monotonically
fuc. for that catifies

T(n) = a T(n) + nd

a>1 b>2 c>0 d>1

then

T(n) 2 > O(nd)

O(nd logn)

O(ndogod)

O(ndogod)

O(ndogod)

O(ndogod)