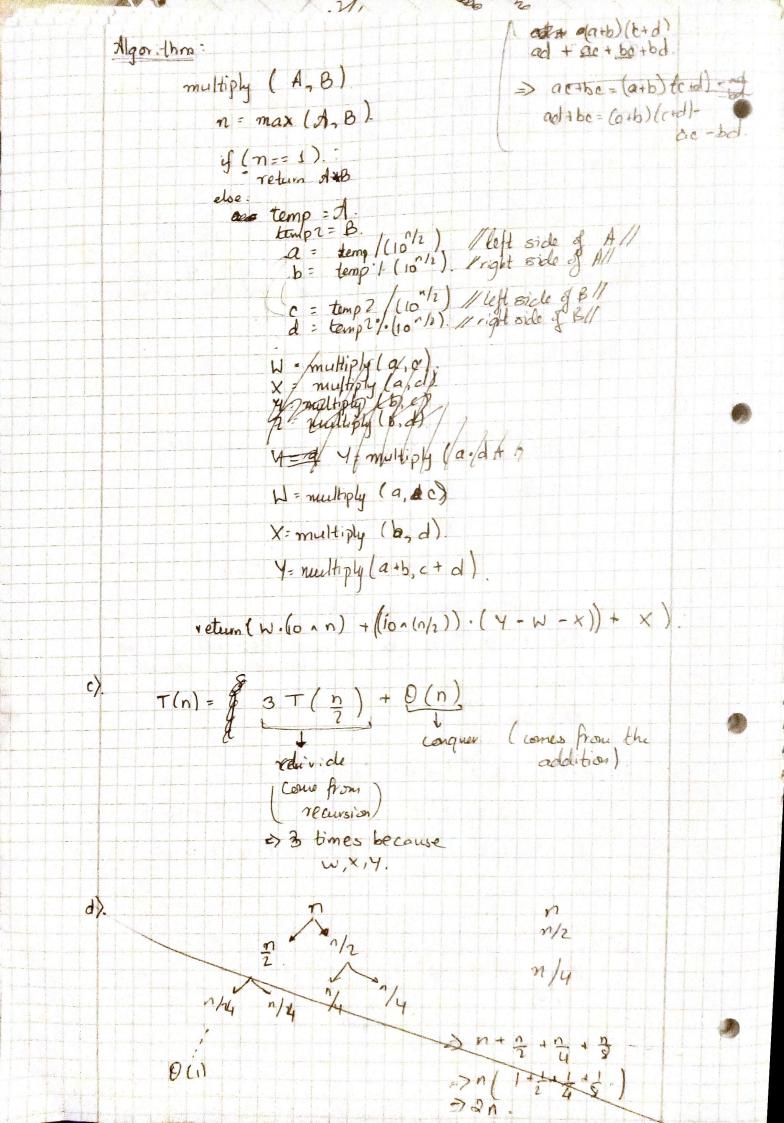
is txt in zip, did not make table e) No, because of overflow that can occur as and rounding error occuring in closed form. d) did not make plot.

an, bonn each portion (ones stens, hundreds, etc.) is multiplied with all the positions of the number we are multipliging with Par example, a: 123, b= 456 123 we would multiple x 4516 6 w 143 3 2 1 1 5 wh 3, 2, 1 The multiplication is $O(n^2)$ and addition use(x) .: 10 (n2) + O(n) Hence, the overall line complexity is O(n1). First, consider, x: 12 which can be split into x: 102/2 +2. consider = 1234 7 = 1210 4/2 + 9 4 = 12-104/2 + 3.103/2+4 so, our general formula would be A= a· 10 1/2 + b, where be took would be recursively solved. ict B = c-10 1/2 + d 1xB= (10"/2+b) (c 10"/2+d) = a c 10" + ad 10"/2 + cb 10"/2 + b.d. =(acio") + 10" (a.d+ t.b) + b.d.



e> finds of fise d) h 5/2/2 1092 3/2 < n - 2n 0 (1158