2.1) a) +t, (n) = 5n2 + 16 to is part of O(n2) as we ignore constants and low-order terms and as we see, n2 is the leading order term of the expression Proof: tin) = kn when n > no Choose no = 1 =7 n > 1 $n = 2 = 75 \cdot 2^2 + 16 = k \cdot 2^2$ 36 ± 4k k ≥ 9 5n2+16 \$ 9n2 when n>1 · t2 (n) = 6n3+n2+18 to belongs to O(n3) as n3 is the leading term of the expression Proof: t2(n) = kn3 when n > no







