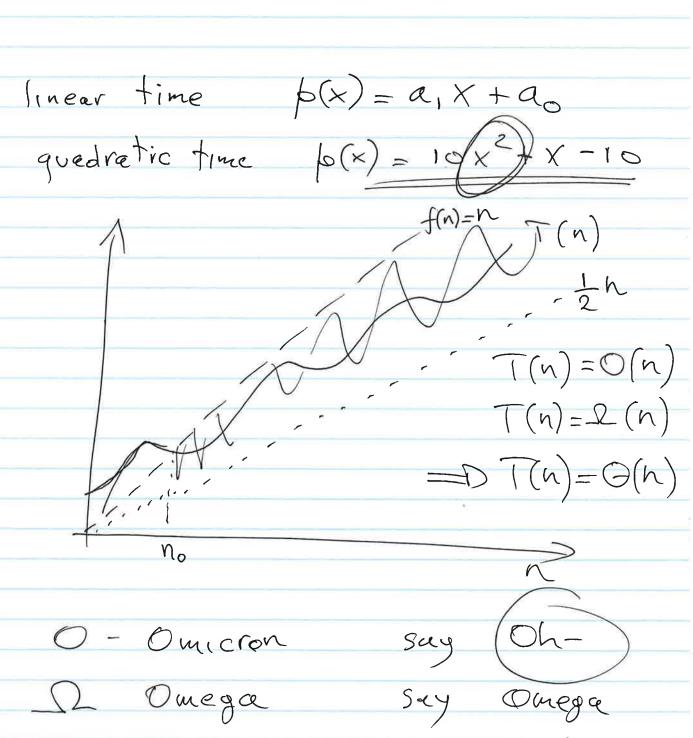
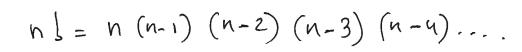
$$\lim_{n\to\infty} \frac{p(2n)}{p(n)} = \lim_{n\to\infty} \frac{a_1^2 n^2 + a_{d-1}^2 n^{d-1} + \dots}{a_1^2 n^2 + a_{d-1}^2 n^{d-1} + \dots}$$

$$= 2^{d}$$



There

theta



Let T(n) be the number of steps ef find_optimel_window

want to oppour bound T(n)

#iterations \le n^2

each iteration takes O(n) time

 $T(n) = O(n^3)$

B[e]-B[b+i] = A[x]+A[a+i]+.... A[n-i] -A[b+i]-A[b+z]....

= A[a]+... + A[b]

2 nd Algorithm

pre-processing = O(n2)

iteration main loops & n2 each takes O(1)

 $T(n) = O(n^2)$