Rank the following functions by increasing order of growth

$$f_1 = n^2$$

$$f_2 = n$$

$$f_3 = n \log n$$

$$f_4 = 2^n$$

Rank the following functions by increasing order of growth

$$f_1(n) = 2^{2^{10000000}}$$

 $f_2(n) = 2^{1000000n}$
 $f_3(n) = \binom{n}{2}$
 $f_4(n) = n\sqrt{n}$

1,4,3,2

 $n^2 \in \Omega(\log n)$? True

 $n \in O(\log n)$? False

 $\log n \in \Theta(\sqrt{n})$? False $\log n \notin \Omega(\sqrt{n})$ $\log n \in O(\sqrt{n})$