$$(8) n^{2} \log(n), 2^{n}, 2^{n}, n^{\log_{2} n}, n^{2}$$
 $(9) 2^{\log_{2} n}, 2^{\log_{2} n}, n^{2}, n^{2} \log_{2}(n)$

Uathypeics

$$\bigcirc$$

 $| \log n \leq n \cdot 1 + \log C$ $| (\log n) = O(n) + | \log C = 1, \eta = 2$ $| (3) n^{2} = O(n^{\log n}) + | \log n > 2 = 1, \eta > 4, c = 1$ $| (3) n^{\log n} = O(n^{2} \log n) + | \log n > 2 = 1, \eta > 6$ $| (3) n^{\log n} = O(n^{2} \log n) + | \log n > 2 = 1, \eta > 6$