

## Big Oh notation rules

1. if  $\lim_{n \rightarrow \infty} \frac{f_1}{f_2} = c > 0 \rightarrow f_1$  is  $O(f_2)$ .
2. if  $\lim_{n \rightarrow \infty} \frac{f_1}{f_2} = 0 \rightarrow f_1$  is  $o(f_2)$ .
3. if  $\lim_{n \rightarrow \infty} \frac{f_1}{f_2} = c_1 > 0$  and  $\lim_{n \rightarrow \infty} \frac{f_2}{f_1} = c_2 > 0 \rightarrow f_1$  is  $\Theta(f_2)$ .