

Exercise 3-5:

a. Answer :

Consider the function $f(n) = \sin n + 3$

$\therefore f(n)$ can fluctuate between a certain range

\therefore We may pick infinitely many points, but cannot guarantee an infinitely long interval,

such that $f(n) \leq g(n)$ or $f(n) \geq g(n)$

\therefore It holds for $\tilde{\Omega}^\infty$, but not for Ω

b. Answer :

It has been proved that $\tilde{\Omega}^\infty$ can tolerate fluctuation.

Thus it means more instability, such evaluation method surely is not as reasonable.