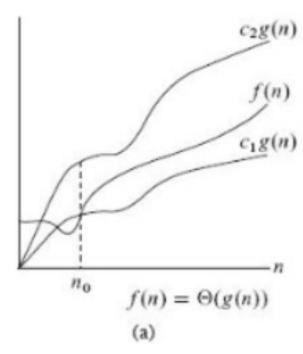
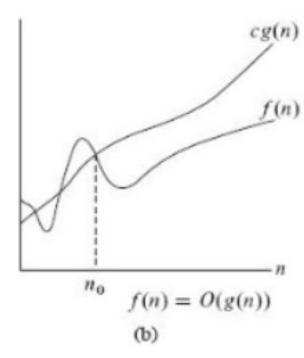
Asymptotic Notations

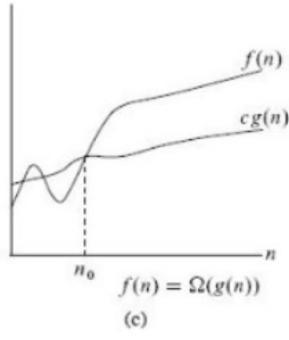
- Mathematical notations that describe the limiting behavior of a function when the argument tends towards a particular value or infinity
 - → In Computer Science, these are used to classify/compare algorithms according to how their run time or space requirements grow as the input size grows



f is bounded **both** above and below by g asymptotically



f is bounded **above** by g asymptotically



f is bounded **below** by g asymptotically

Refer textbook CLRS