CS 170 Cheat Sheet

Big O notation

$f, g \in \mathbb{N}$, $f = O(g)$ means that f grows no faster than g if $\exists c > 0$ s.t. $F(n) \leq cg(n)$

$f = \Theta(g)$ means $g = O(f)$

$f = \Theta(g)$ IFF $f = O(g)$ & $g = \Theta(g)$

Master Theorem

Given: $T(n) = a \times T(\frac{n}{b}) + O(n^d)$

Support Vector Machines

Clustering