Notes, Jan 27th, 2021

Linear Equations

A -> matrix

x -> vector of unknowns

b -> vector

$$Ax = b$$

if A is square

$$x = A^{-1} \cdot b$$

$\beta < 1$

$$\sum_{t=0}^{\infty} \beta^t = \frac{1}{1-\beta}$$

β: scalar

$$\sum_{t=0}^{\infty} A^t \quad (\text{if } \text{modulus}(A) < 1)$$

$$= (I - A)^{-1}$$