Vauance

Put definition la Valuence de
$$X$$
 & definit comme l'opience de l'écret entre X et som espéciance $\mathbb{E}[X] = \mu$

Vai $(X) = \mathbb{E}[(X - \mu)^2]$
 $[X - \mu]^2 = X^2 - 2\mu X + X^2 - (a - b)^2 = x^2 - 2\mu b + b^2$
 $\mathbb{E}[(X - \mu)^2] - \mathbb{E}[X^2 - 2\mu X + \mu^2]$
 $= \mathbb{E}[X^2] - \mathbb{E}[2\mu X] + \mathbb{E}[\mu^2]$
 $= \mathbb{E}[X^2] - 2\mu \mathbb{E}[X] + \mu^2$
 $= \mathbb{E}[X^2] - 2\mu - \mu + \mu^2$
 $= \mathbb{E}[X^2] - 2\mu^2 + \mu^2$
 $= \mathbb{E}[X^2] - \mu^2 + \mu^2$
 $= \mathbb{E}[X^2] - \mu^2 + \mu^2$
 $= \mathbb{E}[X^2] - (\mathbb{E}[X])$

Vai $[X] = \mathbb{E}[X^2] - (\mathbb{E}[X])$