

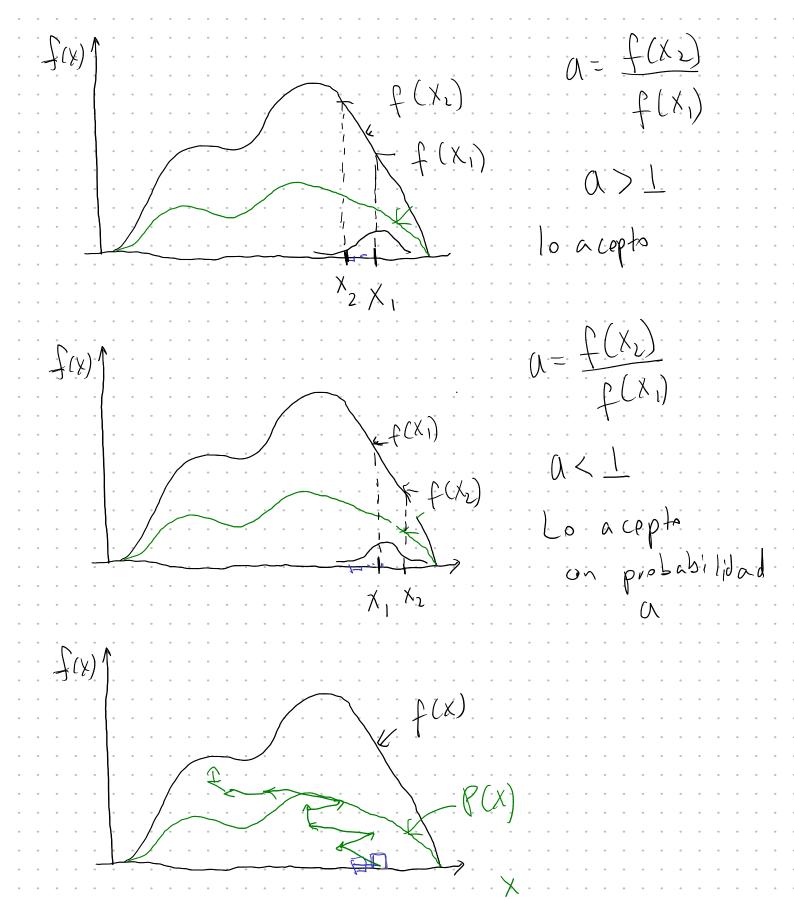
Algoritmo:

$$X_1$$
 $X_2 = X_1 + S(X_1) = X_2 + randon normal 0, L$
 $a = \frac{f(X_2)}{f(X_1)} \frac{Q(X_1 | X_2)}{Q(X_1 | X_2)}$

if $a > L$
 $Acepto X_1 = X_2$

if $a < L$
 $Acepto X_1 = X_2$ con probabilidad a .

 $a = \frac{f(X_{new})}{f(X_{new})} \frac{Q(X_{new} | X_{new})}{Q(X_{new} | X_{new})}$
 $Q(X_{new} | X_{new})$
 $Q(X_$



Integración con Metropolis-Hastings h(x) = f(x)g(x)P(x) = P(x)J. f(x) g(x) dx (X)70 afix dx < M Factor de normalización $\int_{\mathcal{A}} \int_{\mathcal{A}} f(x) dx = \int_{\mathcal{A}} \int_{\mathcal{A}}$ Donde estos ponts Sf(x) g(x) dx $\frac{1}{N}\sum_{i=1}^{N}g(x_i)$ X: son mustreals con M-H a partir $\int_{\mathbb{R}^{n}} \int_{\mathbb{R}^{n}} \int_{$ de la junción f(x) X,, Xz, XN muestre alos Je la junam f(x) con M-H $\int f(x) g(x) dx = c + \sum g(x) = c < g(x)$ f(x)h(x) = g(x) f(x)J'g(x) f(x) lx I Degles St(x) dx g(xi) g(xo)

$$\int g(x) f(x) dx \qquad CM = \frac{m_1 x_1 + m_2 x_2 + \cdots + m_n x_n}{m_1 + \cdots + m_n}$$

$$\int f(x) dx \qquad CM = \frac{\sum m_1 x_1}{\sum m_1} = \frac{\int x dm}{\int dm}$$

$$dm = \int dv \qquad \int f(x) g(x) dx \qquad \int f(x) dx$$

$$\int g(x) = x \qquad f(x) = P(x) \qquad \int f(x) dx \qquad \int f(x) dx$$

$$\int g(x) = x \qquad f(x) = P(x) \qquad \int f(x) dx \qquad \int f(x) dx \qquad \int f(x) dx$$

$$\int g(x) = x \qquad \int f(x) = f(x) \qquad \int f(x) dx \qquad \int$$