MONTE CARLO INTEGRATION

MULTI PARAMETERS

$$\theta_{1} = \theta_{1}$$
 $\pi(\theta_{1} | X_{1}) = \int_{\theta_{2}}^{\pi} \pi(\theta_{1} | X_{1}) d\theta_{2}$

SINGLE PARAMETER

Non- Conjugate Prior

 $\pi(\theta_{1} | X_{1}) = \int_{\theta_{2}}^{\pi} \pi(\theta_{1} | X_{1}) d\theta_{2}$
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 $\pi(\theta_{1} | X_{1}) = \int_{\theta_{2}}^{\pi} \pi(\theta_{1} | X_{1})$

INTMCTABLE!

NOTE If O' ARE INDEPENDENT SAMPLES FROM TI(OIX) => \(\frac{1}{2} \) \(\frac{ MONTE CARLO ERROR (see SUDES)