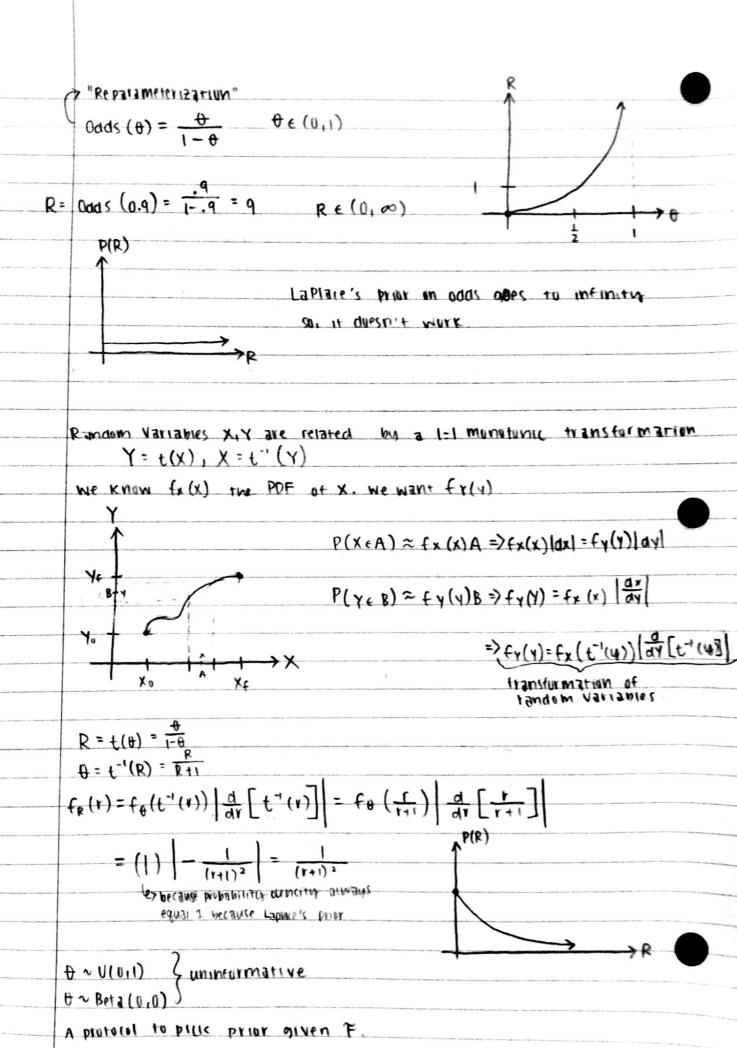
$\theta \sim \text{Beta}(0,0) \Rightarrow \text{complete ignorance} \xrightarrow{X} \theta \sim \text{Beta}(0,0) \Rightarrow \text{complete ignorance} \xrightarrow{X} \text{improper if } X=0 \text{ or } X=0$ $\theta \sim \text{Beta}(0,0) \Rightarrow \text{complete ignorance} \xrightarrow{X} \text{improper if } X=0 \text{ or } X=0$ $\theta \sim \text{Beta}(0,0) \Rightarrow \text{complete ignorance} \xrightarrow{X} \text{improper if } X=0 \text{ or } X=0$



Under a reparametrization $\Phi = t(a)$. What if I had a protocol which allowed me to pick priors:

$$P(x|\theta) \xrightarrow{bi(k)} P(\theta), P(x|\phi) \xrightarrow{bi(k)} P(\phi)$$

such that we have :

$$P(\Phi) = P(t^{-1}(\Phi)) \left| \frac{d\Phi}{d\Phi} \left[t^{-1}(\Phi) \right] \right|$$

Kernels

$$P(\theta|X) = \frac{P(X|\theta)P(\theta)}{P(X)} \propto P(X|\theta)P(\theta)$$

f(xit) & g(xit) "kernel"

$$f(x,\theta) = \frac{1}{C}g(x;\theta) \implies \int f(x) dx = 1 \implies \int g(x) dx = \int c f(x) dx = c \int f(x) dx$$

$$\Rightarrow c = \int g(x) dx$$

NUTE: fig are 1:1

$$P(\theta|x) \propto P(x|\theta) P(\theta) = \binom{n}{x} \frac{1}{\theta^{x}} \frac{1}{\theta^{x$$

$$= \theta^{x+\alpha-1} (1-\theta)^{n-x+\beta-1} = Beta(\alpha+x,\beta+n-x)$$

$$\theta \sim B(13)(\alpha, \beta) = \frac{1}{B(\alpha, \beta)} \theta^{\alpha-1} (1-\theta)^{\beta-1} \propto \theta^{3} (1-\theta)^{\beta}$$

$$= B(13)(\alpha+x)$$

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$$= \frac{x_{1}(u-x)_{1}}{u_{1}} \theta_{x} (1-\theta)_{u-x}$$

$$= \frac{x_{1}(u-x)_{1}}{u_{1}} \theta_{x} (1-\theta)_{u-x}$$

$$\propto \frac{x_i(N-x)i}{1} \left(\frac{1-\theta}{\theta}\right)_x$$

Fisher Intermation

Recall: Interimation

Recall: Interimation

$$X(\theta,x) = P(x,\pm)$$
 $Y(\theta,x) = P(x,\pm)$
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Define the Score function:

 $Y(\theta,x) = Y(\theta,x)$
 $Y(\theta,x) = Y(\theta,x)$
 $Y(\theta,x) = Y(\theta,x)$

Figure Information

 $Y(\theta,x) = Y(\theta,x)$
 $Y(\theta,x) = Y(\theta,$