$$\Rightarrow$$
 Data distribution  $f(y|\theta) = \begin{pmatrix} 100 \\ y \end{pmatrix} \theta^y \begin{pmatrix} 1-0 \end{pmatrix}^{(80-y)}, \quad y=0,1,...,100 \\ 0 \le \theta \le 1$ 

1) Prior -> 0 ~ 
$$Vn: to/m/o_1) = Beta(1,1)$$

Tr (0)= 1 , 0 ± 0 ± 1

$$\rho_{\text{otherise}}$$
 Again  $\Rightarrow$   $E(\Theta|Y) = \frac{4}{0+8} = \frac{Y+1}{(y+1)+(|O|-Y)} = \frac{Y+1}{102}$ 

3) 
$$P(i) \rightarrow Q \sim D_{0} + \pi (i, 0)$$
  
 $\pi (0) = \frac{f'(1+i0)}{f'(i)f'(i)} \theta^{i-1}(i-0)^{1-1}, 0 \le 0 \le i$ 

$$\rho_{0,1}(x,x) \rightarrow \rho(0,1) \ll \rho(1/2) \ll \rho(1/2) \approx \rho(1/$$

Posterior wash 
$$\Rightarrow \mathcal{E}(\theta|y) = \frac{y+1}{(y+1)+(110-y)} = \frac{y+1}{111}$$