2014 °3 e Setup Use  $f(\vec{g}|\vec{x}) = \prod_{i=1}^{n} f(g_i|x_i)$ i) use NPL to test this G=2 v this G=B, G=2  $\Rightarrow \phi(y) = \begin{cases} 1 & g(\vec{y}|\vec{x}, B) > k f(\vec{y}|\vec{x}, 2) \\ 6 & f(\vec{y}|\vec{x}, B) < k f(\vec{y}|\vec{x}, 2) \end{cases}$   $S+E_2[\phi(y)]=\varphi(y)$ Show it's RR doesn't do pard on H. (ie B.) it's a UMP test for Ho: B=2 V HI: B>2