

$$P_{X|t}, \text{ if } \forall t, X \in \mathcal{K}.$$

Need a
Carollary to Lemma 5.1.
 to say that if the distⁿ of
 $P_{Y|X}(y|x)$ don't depend on X
 then ...

and if $Y|X \perp\!\!\!\perp \mathbb{R}^K$.
 then $Y|f(X) \perp\!\!\!\perp \mathbb{R}^K$.

monomorphism

$$Y \perp\!\!\!\perp \mathbb{R}^K !!$$

$$P_{Y|X}($$

$$P_{X|Y}(x,y) = P_{Y|X}(y|x) P_X(x)$$

$$= h(y) P_X(x)$$

i.e. as $I = f(X)$ is a function
 and $Y|I = Y$.

$$\perp\!\!\!\perp Y$$