$$D_{\mathcal{G}}(P||Q) = \int_{\mathcal{A}} q(x) f(\frac{p(x)}{q(x)}) dx$$

$$\int_{\mathcal{A}} f(x) = 0$$

If 
$$p(x) = q(x)$$
 for all  $p(x) = 0$   
-! f is convex.

$$\frac{1}{2} \cdot 2g(p|Q) = \int \left( \int_{X} f(x) \frac{f(x)}{g(x)} dx \right)$$

$$= \int f(x)$$

f(x) = xlogx Reverse KL -byx Chi Suore (X-1)~ 手 女死就能  $\int_{x \in clom t}^{x} f(t) = \max_{x \in clom t} f(x) = f(x)$ xx-fixy 72+-fuz)

Connection with GiAV  $f^{*}(t) = \max_{x \in dom(f)} f(x) + \max_{x \in dom(f^{*})} f(x)$ 

) divagence