This given anat

$$\pi_i(z') = \int \pi(z'|z) \, \pi_i(z) \, dz \quad \text{where } i=1,2$$

and
$$i=2$$

$$\pi_{i}(z') = \int_{R} \pi(z'|z) \pi_{i}(z) dz$$

toe need to snow that

is mentioned in the ornestion.

$$\frac{1}{2} \int \frac{1}{2} \left| \frac{1}{2} \left| \frac{1}{2} \left| \frac{1}{2} \right| \frac{1}{2} \left| \frac{1}{2} \left| \frac{1}{2} \right| \frac{1}{2} \right| \frac{1}{2} \left| \frac{1}{2} \left| \frac{1}{2} \right| \frac{1}{2} \left| \frac{1}{2} \right|$$

$$d\tau_{V}(\vec{T_{1}},\vec{T_{2}}) = \frac{1}{2} \int \frac{Ef_{2}[z]}{Ef_{2}[z]} - Ef_{1}[z] \int dz'$$

$$= \frac{1}{2} \int \frac{Ef_{2}[z]}{Ef_{2}[z]} + \frac{1}{2} \int \frac{1}$$

できく T(2/2) dz· 1/2(2) 一般TT1(2) dz

Z 1. - [ETT [2] - ETT [2]

 $=\frac{1}{2}\left|\left|E_{\Pi_{2}}EZI-E_{\Pi_{1}}ZZI\right|\right|$

 \mathbb{Z} $d_{\text{TV}}(\pi_1, \pi_2)$

dry $(\tilde{\pi}_1, \tilde{\pi}_2) \leq d\tau v (\tilde{\pi}_1, \tilde{\pi}_2)$

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