$$\int_{\mathcal{Z}}^{\mathcal{F}} \frac{1}{\mathcal{F}^{-X}} dx = \lim_{t \to g^{-}} \int_{\mathcal{S}}^{1} \frac{1}{\mathcal{F}^{-X}} dx \qquad \mu = \mathcal{F}^{-X} \qquad d\mu = -dx$$

$$= \lim_{t \to g^{-}} \left(-\ln|\mathcal{F}^{-t}| - -\ln|\mathcal{F}^{-3}| \right)$$

$$= (-\infty) + \ln(5)$$

$$= +\infty$$