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$$= \inf \left\{ X : \int_{b=1}^{\infty} \int_{a}^{b} \left[\int_{a}^{b} \left(\hat{\theta}_{u}^{ab} - \hat{\theta}_{u}^{a} \right) \leq X \right] \geq \underbrace{\mathbb{E}_{u}}_{2}^{a} \right\}$$

$$= \int_{a}^{a} \int_{a}^{b} \int_{a}^{b} \left[\int_{a}^{b} \left(\hat{\theta}_{u}^{ab} - \hat{\theta}_{u}^{a} \right) \leq X \right] \geq \underbrace{\mathbb{E}_{u}}_{2}^{a} \right\}$$

$$= \frac{1}{2} \left\{ x \cdot \frac{$$

$$= \left\{ u \left(\inf \left\{ x : \frac{1}{8} \right\} \right\} \left[\hat{\partial}_{u}^{\hat{a}} \times x \right] \ge \frac{u}{2} \right\} - \hat{Q}_{1} = \left\{ u : \left(\hat{\partial}_{u}^{0} - \hat{Q}_{1} \right) \right\}$$
Therefore:
$$\begin{cases} \hat{\mathcal{G}}_{\frac{1}{2}}^{\hat{a}} = \ln \left(\hat{\partial}_{\frac{1}{2}}^{\hat{a}} - \hat{\partial}_{1} \right) \Rightarrow CT = \left[2 \hat{Q}_{1} - \hat{Q}_{1-\frac{1}{2}}^{\hat{a}} + 2 \hat{Q}_{1} - \hat{Q}_{1} \right] \end{cases}$$