$$M_{x}(t) = E \left\{ e^{t \times 3} \right\}$$

$$= \int_{\theta_{1}}^{\theta_{2}} \frac{e^{t \times}}{\theta_{2} - \theta_{1}} dx$$

$$= \left[\frac{e^{t \times}}{e} \int_{\theta_{1}}^{\theta_{2}} \frac{1}{\theta_{2} - \theta_{1}} dx \right]$$

$$= \frac{e^{0} \int_{\theta_{1}}^{\theta_{2}} \frac{1}{\theta_{2} - \theta_{1}} dx}{e^{t \cdot 1} \int_{\theta_{1}}^{\theta_{2}} \frac{1}{\theta_{2} - \theta_{1}} dx} dx$$

$$= \frac{e^{0} \int_{\theta_{1}}^{\theta_{2}} \frac{1}{\theta_{2} - \theta_{1}} dx}{e^{t \cdot 1} \int_{\theta_{2}}^{\theta_{2}} \frac{1}{\theta_{2} - \theta_{1}} dx} dx$$

$$= \frac{e^{0} \int_{\theta_{1}}^{\theta_{2}} \frac{1}{\theta_{2} - \theta_{1}} dx}{e^{t \cdot 1} \int_{\theta_{1}}^{\theta_{2}} \frac{1}{\theta_{2} - \theta_{1}} dx} dx$$

$$= \frac{e^{0} \int_{\theta_{1}}^{\theta_{2}} \frac{1}{\theta_{2} - \theta_{1}} dx}{e^{t \cdot 1} \int_{\theta_{1}}^{\theta_{2}} \frac{1}{\theta_{2} - \theta_{1}} dx} dx$$

$$= \frac{e^{0} \int_{\theta_{1}}^{\theta_{2}} \frac{1}{\theta_{2} - \theta_{1}} dx}{e^{t \cdot 1} \int_{\theta_{1}}^{\theta_{2}} \frac{1}{\theta_{2} - \theta_{1}} dx} dx$$

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$$= \frac{e^{0} \int_{\theta_{1}}^{\theta_{2}} \frac{1}{\theta_{2} - \theta_{1}} dx}{e^{t \cdot 1} \int_{\theta_{1}}^{\theta_{2}} \frac{1}{\theta_{2} - \theta_{1}} dx} dx$$

$$= \frac{e^{0} \int_{\theta_{1}}^{\theta_{2}} \frac{1}{\theta_{2} - \theta_{1}} dx} dx$$

$$= \frac{$$