$$\frac{dx}{x\sqrt{x^{2}+x_{41}}} = \frac{dx}{x\sqrt{(x+\frac{1}{2})^{2}+\frac{3}{4}}} = \frac{dx}{dt-dx} = \frac{dt}{(t-\frac{1}{2})\sqrt{t^{2}+\frac{3}{4}}} = \frac{dt}{dt-\frac{\sqrt{3}}{2}} \frac{dz}{dt} = \frac{dt}{2\cos^{2}z} \frac{dz}{dt} = \frac{\sqrt{3}}{2\cos^{2}z} \frac{dz}{dz} = \frac{\sqrt{3}}{2\cos^{$$

$$= 2 \int \frac{dz}{(\sqrt{3} \tan^2 - 1) \cos^2 z} = 2 \int \frac{dz}{(\sqrt{3} \sin^2 - \cos z)} = \int \frac{\tan z}{2} = \sqrt{\cos^2 z} = 2 \cot w = 3dz = 2 dw$$

$$= 2 \int \frac{dz}{(\sqrt{3} \tan^2 - 1) \cos^2 z} = 2 \int \frac{dz}{(\sqrt{3} \sin^2 - \cos z)} = \sqrt{\cos^2 z} = 2 \int \frac{dz}{(\sqrt{3} \sin^2 - \cos z)} = \sqrt{\cos^2 z} = 2 \int \frac{dz}{(\sqrt{3} \sin^2 - \cos z)} = \sqrt{\cos^2 z} = 2 \int \frac{dz}{(\sqrt{3} \sin^2 - \cos z)} = \sqrt{\cos^2 z} = 2 \int \frac{dz}{(\sqrt{3} \sin^2 - \cos z)} = \sqrt{\cos^2 z} = 2 \int \frac{dz}{(\sqrt{3} \sin^2 - \cos z)} = \sqrt{\cos^2 z} = 2 \int \frac{dz}{(\sqrt{3} \sin^2 - \cos z)} = \sqrt{\cos^2 z} = 2 \int \frac{dz}{(\sqrt{3} \sin^2 - \cos z)} = \sqrt{\cos^2 z} = 2 \int \frac{dz}{(\sqrt{3} \sin^2 - \cos z)} = \sqrt{\cos^2 z} = 2 \int \frac{dz}{(\sqrt{3} \sin^2 - \cos z)} = \sqrt{\cos^2 z} = 2 \int \frac{dz}{(\sqrt{3} \cos^2 z)} = 2 \int$$

$$= \frac{1}{2} \int \frac{2 \cdot dw}{(1+w^2)(\sqrt{3} \cdot 2w - (1-w^2))} = \int \frac{4 \cdot dw}{w^2 + 2\sqrt{3}w - 1} = 4 \int \frac{dw}{(w+\sqrt{3})^2 - 4} = -4 \int \frac{dw}{4 - (w+\sqrt{3})^2} = \frac{1}{4} \int \frac{dw}{1 - (w+\sqrt{3})^2}$$

$$= -\ln \left| \frac{2 + \sqrt{3} + \tan \left(\frac{2 + \sqrt{3}}{2} \right)}{2 + \sqrt{3} - \tan \left(\frac{2 + \sqrt{3}}{2} \right)} \right| + C = -\ln \left| \frac{2 + \sqrt{3} + \tan \left(\frac{2 + \sqrt{3}}{2} \right)}{2 - \sqrt{3} - \tan \left(\frac{2 + \sqrt{3}}{2} \right)} \right| + C$$

$$= -\ln \left| \frac{2 + \sqrt{3} + \tan \left(\frac{2 + \sqrt{3}}{2} \right)}{2 - \sqrt{3} - \tan \left(\frac{2 + \sqrt{3}}{2} \right)} \right| + C$$