$$\begin{cases} X(x^{2}x^{1})^{50} dx = (x^{2}x^{1})^{50} \frac{1}{2} 2x dx = (x^{2}x^{1})^{50} \frac{1}{2} \frac{1}{2} (x^{2}x^{1})^{50} \frac{1}{2} dx^{2} = \\ = \frac{1}{2} (x^{2}x^{1})^{50} dx^{2} = \frac{1}{2} \frac{1}{51} 51(x^{2}x^{1})^{50} dx^{2} = \frac{1}{2} \frac{1}{51} \frac{1}{4} \frac{1}{2} (x^{2}x^{1})^{51} d(x^{2}x^{1})^{51} = \\ = \frac{1}{2} (x^{2}x^{1})^{51} = \frac{1}{102} d(x^{2}x^{1})^{51} = \frac{1}{102} d(x^{2}x^{1$$

$$\begin{aligned} & \int_{A} x(x_{5}x_{1}) \frac{1}{2} \frac{1}{2} \\ & = \frac{1}{4} \frac{1}{(x_{5}x_{1})^{2}} \frac{1}{2} \frac{1}{4} \frac{1}{(x_{5}x_{1})^{2}} \frac{1}{2} \frac{1}{4} \frac{1}{(x_{5}x_{1})^{2}} \frac{1}{2} \\ & = \frac{1}{4} \frac{1}{4} \frac{1}{(x_{5}x_{1})^{2}} \frac{1}{4}$$