

Substitute the parameterizations based on t for all of the variables in the original integrand.

$$\int_C y^3 ds = \int_0^2 t^3 \sqrt{9t^4 + 1} dt \quad \text{Substitute } y = t, ds = \sqrt{9t^4 + 1}$$

As written this integrand is rather difficult but it can be simplified using the substitution

$$u = 9t^4 + 1$$

and the corresponding differential

$$du = 36t^3 dt$$

Because the parameter t lies in between 0 and 2, find the values of u at these points and find the integral with the obtained limits.

Use

$$\begin{aligned} u(0) &= 9(0)^4 + 1 \\ &= 1 \end{aligned}$$

And

$$\begin{aligned} u(2) &= 9(2)^4 + 1 \\ &= 9 \cdot 16 + 1 \\ &= 145 \end{aligned}$$

to complete the substitution.

$$\int_0^2 t^3 \sqrt{9t^4 + 1} dt = \int_1^{145} \frac{1}{36} \sqrt{u} du$$

Answers For Stewart Calculus 7e Problems Plus

Stewart Harris



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