

Multivariable Calculus

Day 4

Integrations of vector functions

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Integrals

Indefinite integral

$$\int_a^b \mathbf{r}(t) dt = \left\langle \int_a^b r_1(t) dt, \int_a^b r_2(t) dt, \int_a^b r_3(t) dt \right\rangle$$

How would one measure the length of a curve?