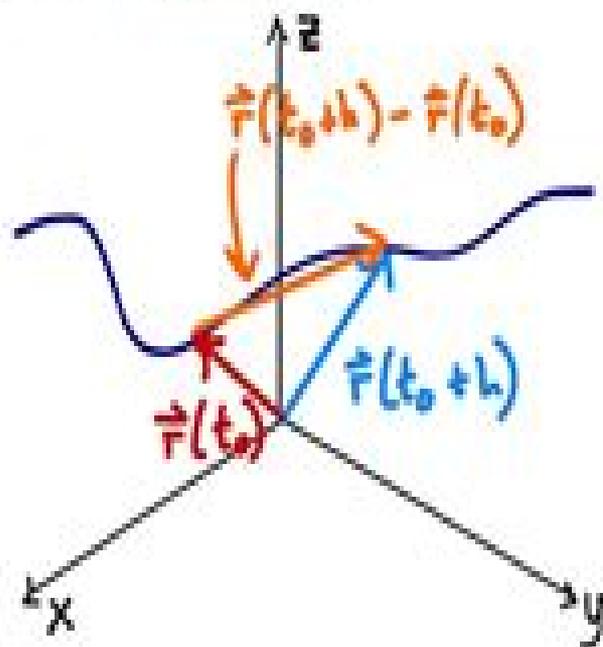


MULTIVARIABLE CALCULUS

CALCULUS ON VECTOR-VALUED FUNCTIONS (CURVES)

Differentiation



Let \vec{r} be defined on an interval containing t_0 . The derivative of \vec{r} at t_0 is

$$\frac{d\vec{r}}{dt}(t_0) = \vec{r}'(t_0) = \lim_{h \rightarrow 0} \frac{\vec{r}(t_0+h) - \vec{r}(t_0)}{h}$$

tangent vector / velocity vector

change in outputs

change in inputs

provided this limit exists.

Exercises In Multivariable And Vector Calculus

Huangqi Zhang



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