

Example 5 – Continuity of Vector-Valued Functions

Discuss the continuity of the vector-valued function given by

$$\mathbf{r}(t) = t\mathbf{i} + a\mathbf{j} + (a^2 - t^2)\mathbf{k} \quad a \text{ is a constant.}$$

at $t = 0$.

Solution:

As t approaches 0, the limit is

$$\begin{aligned}\lim_{t \rightarrow 0} \mathbf{r}(t) &= \left[\lim_{t \rightarrow 0} t \right] \mathbf{i} + \left[\lim_{t \rightarrow 0} a \right] \mathbf{j} + \left[\lim_{t \rightarrow 0} (a^2 - t^2) \right] \mathbf{k} \\ &= 0\mathbf{i} + a\mathbf{j} + a^2\mathbf{k} \\ &= a\mathbf{j} + a^2\mathbf{k}.\end{aligned}$$

Continuous Functions Of Vector Variables Continuous Functions Of Vector Variables

R Bogdan



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