Vector derivatives

1. Let $\mathbf{r}(t)$ be a vector function. Prove by using components that

$$\frac{d\mathbf{r}}{dt} = \mathbf{0} \implies \mathbf{r}(t) = \mathbf{K}$$
, where **K** is a constant vector.

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18.02SC Multivariable Calculus Fall 2010

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