

BP3

Determine the curvature of the following curves by two ways. Only one way may work!

1. $\vec{r}(t) = t^2\vec{i} + \sin 2t\vec{j} + \cos 2t\vec{k}$

2. $\vec{r}(t) = t \cos t\vec{i} - t \sin t\vec{j} + t^2\vec{k}$