

Advanced Mathematics II

Instructor: Alex Karpis

Problem 1

Consider the curve $\gamma(t) = (t, t^2, t^3)$ in $\mathbb{R}^3$. Compute the curvature $\kappa(t)$.

Solution:

Recall that the curvature $\kappa(t)$ is defined as the magnitude of the derivative of the unit tangent vector $T(t)$ with respect to arc length s :

$$\kappa(t) = \left\| \frac{dT}{ds} \right\| = \frac{\left\| \frac{d\gamma}{dt} \times \frac{d^2\gamma}{dt^2} \right\|}{\left\| \frac{d\gamma}{dt} \right\|^3}$$

Here $\frac{d\gamma}{dt} = (1, 2t, 3t^2)$ and $\frac{d^2\gamma}{dt^2} = (0, 2, 6t)$. Compute the cross product $\frac{d\gamma}{dt} \times \frac{d^2\gamma}{dt^2}$ and the magnitude $\left\| \frac{d\gamma}{dt} \right\|$.

$$\frac{d\gamma}{dt} \times \frac{d^2\gamma}{dt^2} = \begin{vmatrix} 1 & 2t & 3t^2 \\ 0 & 2 & 6t \end{vmatrix} = (12t^2, -6t, 2)$$

Thus, $\left\| \frac{d\gamma}{dt} \times \frac{d^2\gamma}{dt^2} \right\| = \sqrt{144t^4 + 36t^2 + 4}$.

Also, $\left\| \frac{d\gamma}{dt} \right\| = \sqrt{1 + 4t^2 + 9t^4}$. Therefore, the curvature is given by:

$$\kappa(t) = \frac{\sqrt{144t^4 + 36t^2 + 4}}{(1 + 4t^2 + 9t^4)^{3/2}}$$

which simplifies to $\kappa(t) = \frac{2\sqrt{36t^4 + 9t^2 + 1}}{(1 + 4t^2 + 9t^4)^{3/2}}$.

Advanced Macro By Luo Daqing

G Thomas



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