## Answer on Question #56120 – Math – Differential Geometry

## Question

```
A=sinti+costj+tk
, find
///d^2A/dt^2///
7
3
2
1
```

Solution

$$\frac{dA}{dt} = \cos t \, i - \sin t \, j + k$$
$$\frac{d^2 A}{dt^2} = -\sin t \, i - \cos t \, j + 0k$$
$$\left| \left| \frac{d^2 A}{dt^2} \right| \right| = \sqrt{\sin^2 t + \cos^2 t} = 1$$

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