Solution - Exercise [10]
Introduction to Computer Graphics - B-IT Master Course

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First Exercise

$p'(t) = (3t^2 e^{t^2} + 2t^4 e^{t^2}, \frac{2t\cos(t) + t^2 \sin(t)}{\cos^2(t)})$

$0 \in [-\pi/4, \pi/4], p'(0) = 0 \Rightarrow p$ is not regular.

Second Exercise

Tangent vector is $p'(t)$

$p'(t) = (3t^2, 2t + 5)$

$p'(2) = (12, 9)$

Third Exercise

Curve p is arc length parametrised if

$||p'(t)|| = 1, t \in [a, b]$