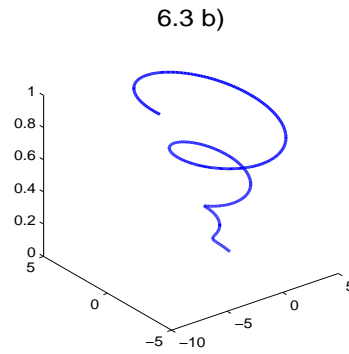
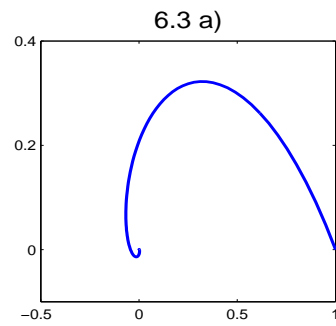


Lösung zu 7.3:



Die Tangentialvektoren lauten

$$a) \dot{x}(t) = -e^{-t} \begin{pmatrix} \cos t \\ \sin t \end{pmatrix} + e^{-t} \begin{pmatrix} -\sin t \\ \cos t \end{pmatrix} \quad b) \dot{x}(t) = \begin{pmatrix} -3(1-t) \sin 3t - \cos 3t \\ 3(1-t) \cos 3t - \sin 3t \\ \frac{1}{2\pi} \end{pmatrix} .$$