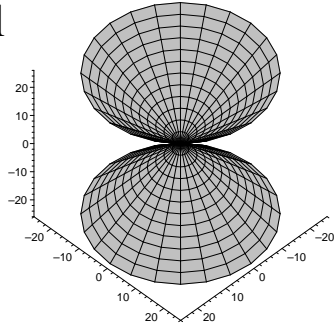
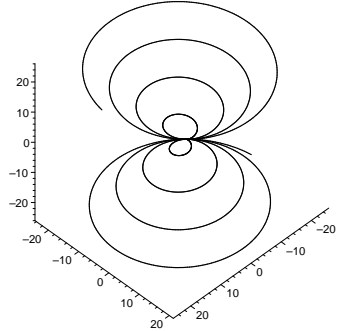


Doppelkegel
 $z^2 = x^2 + y^2$

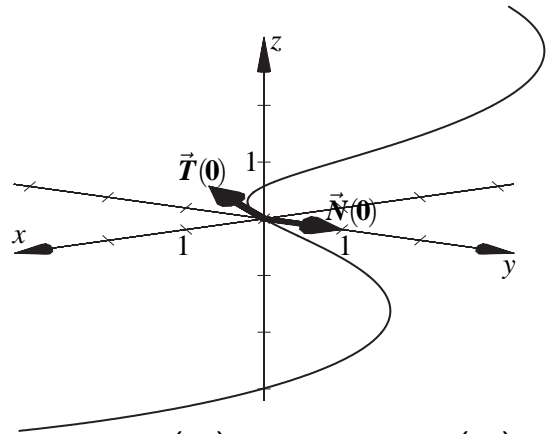
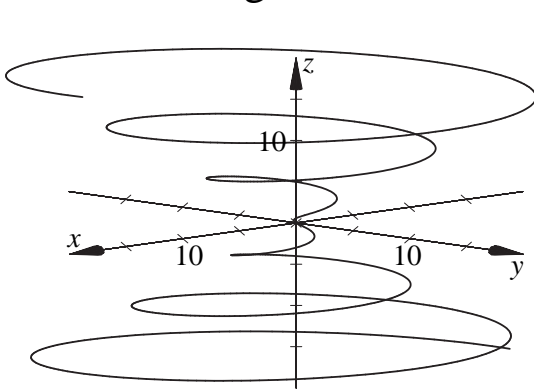


Konische
 Schraubenlinie

$$\vec{x}(t) = \begin{pmatrix} t \cos t \\ t \sin t \\ t \end{pmatrix}$$

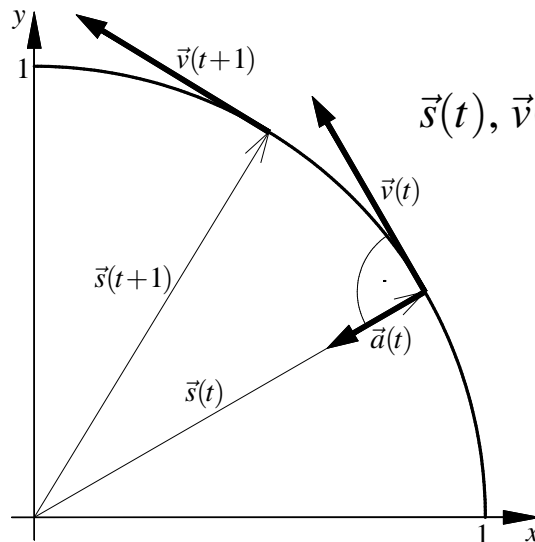


Tangenten- und Hauptnormaleneinheitsvektor für $t = 0$



$$\vec{T}(0) = \frac{1}{\sqrt{2}} \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix}, \quad \vec{N}(0) = \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix}$$

Bewegung eines Punktes gemäß $\vec{s}(t) = \begin{pmatrix} \cos(t/2) \\ \sin(t/2) \end{pmatrix}$



$\vec{s}(t)$, $\vec{v}(t)$ und $\vec{a}(t)$ für $t = \frac{\pi}{3}$