

5.19 \approx periodičnost

$$f'(t) = (-a \sin t, a \cos t, b)$$

$$f''(t) = (-a \cos t, -a \sin t, 0)$$

$$f' \times f'' = (ab \sin t, -ab \cos t, a^2)$$

$$\|f' \times f''\| = a \sqrt{a^2 + b^2}$$

6.4 $g(t) := f(t) + l \cdot \underbrace{e_3(t)}_{\text{jednotkový}}$

$$e_3(t) = \frac{f'(t) \times f''(t)}{\|f'(t) \times f''(t)\|}$$

$$\|f' \times f''\| = a \sqrt{a^2 + b^2}$$

$$g(t) = f(t) + \frac{l}{a \sqrt{a^2 + b^2}} \cdot f'(t) \times f''(t)$$

$$= f(t) + \frac{al}{a \sqrt{a^2 + b^2}} (b \sin t, -b \cos t, a)$$

7.5: $g_2(t) = e^{it} = \cos t + i \sin t$

$g_3(t) = e^{-it} = \cos t - i \sin t$

cos t $\geq \cos t$

sin t $\geq i \sin t$