Aufgabe 02.3

(a)
$$\vec{r}(t) = \begin{pmatrix} x(t) \\ y(t) \\ y(t) \end{pmatrix} = \begin{pmatrix} bo + bit + bit^2 \\ Ct + Cyt^3 + (4+4) \\ do + Ait^2 + (4+4) \end{pmatrix}$$
 $to = 0 \implies \vec{r}(t_0) = \begin{pmatrix} bo \\ 0 \\ 0 \end{pmatrix} = \begin{pmatrix} 25 \\ 0 \\ 120 \end{pmatrix}$
 $t_1 = 2.55 \implies \vec{r}(t_1) = \begin{pmatrix} 25 - 1.5x_{1.2}s_{1.35}x_{2.52} \\ 120 - 44x_{2.5}s_{1.20} + 1.5x_{2.5}s_{1.20} \end{pmatrix} = \begin{pmatrix} 4.385 \\ 20.088 \\ 147.06895 \end{pmatrix} \approx \begin{pmatrix} 2.35x_{1.2}s_{$