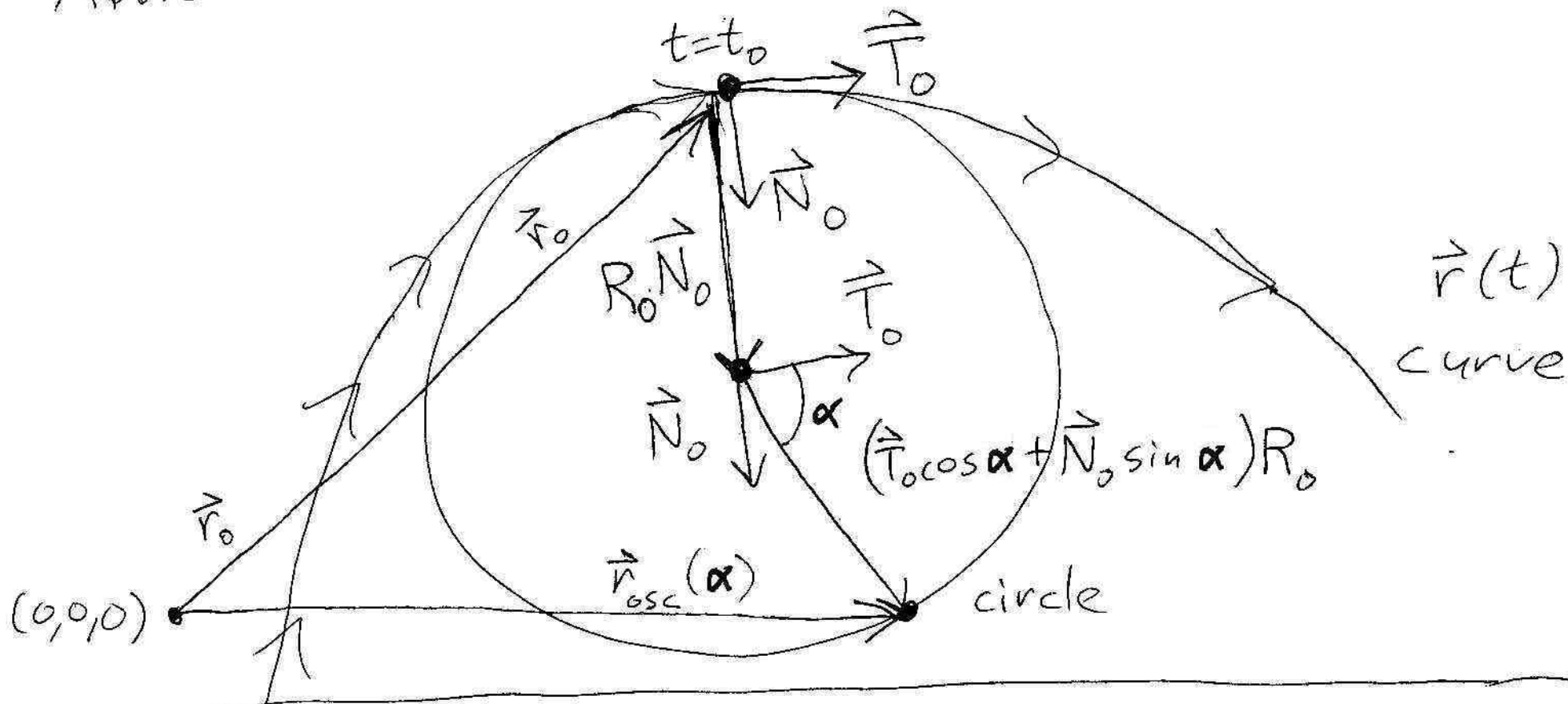


Osculating (kissing) circle, parametrized.

curve: $\vec{r}(t) = \langle x(t), y(t), z(t) \rangle$

Abbreviation: $\vec{u}_0 = (\vec{u} \text{ at time } t=t_0)$



osc.

circle: $\vec{r}_{osc}(\alpha) = \vec{r}_0 + R_0((\cos \alpha) \vec{T}_0 + (1 + \sin \alpha) \vec{N}_0); 0 \leq \alpha \leq 2\pi$