

rechnung_signalzeitverlauf_umkehrintegrator

Student Group

First Name	Surname	Matrikel Nr.

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$\$l.\quad$ At the point $\$t_1$

[illegible]

$\$l.\quad$ At the point t_2

$\frac{dU_{\{O\}}(t_1)}{dt} = -\frac{1}{\tau} U_{\{O\}}(t_0) + \dots$	
$\frac{dU_{\{O\}}(t_1)}{dt} = -\frac{1}{5 \text{ ms}} U_{\{O\}}(t_0) + \dots$	
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$\frac{dU_{\{O\}}(t_1)}{dt} = -\frac{1}{5 \text{ ms}} U_{\{O\}}(t_0) + \dots$	

\$I.\quad\$ At the point \$t = 3\$

$\frac{dU_{\{O\}}(t_1)}{dt} = -\frac{1}{\tau} U_{\{O\}}(t_0) \quad \cdot \int_{t_0}^{t_1} U_{\{O\}}(t) dt + \dots$	
$\frac{dU_{\{O\}}(t_1)}{dt} = -\frac{1}{5 \text{ ms}} U_{\{O\}}(t_0) \quad \cdot (-2V) \cdot [t_{10\text{ms}}^{20\text{ms}}] + 0V = -2V$	
$\frac{dU_{\{O\}}(t_1)}{dt} = -\frac{1}{5 \text{ ms}} U_{\{O\}}(t_0) \quad \cdot (-2V) \cdot [t_{10\text{ms}}^{20\text{ms}}] + 0V = -2V$	

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