rechnung_signalzeitverlauf_umkehrintegrator

Student Group

First Name	Surname	Matrikel Nr.

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$I.\quad$ Am Punkt t_1

$U_{A}(t_1) \ \ = \ -{ 1 \over {\tau} } \ \cdot \ \int_{t_0}^{t_1} U_E \ dt \ + \ U_{A}(t_0)$	Werte einsetzen	
$\qquad\qquad\qquad\qquad\qquad\quad$	$\qquad\qquad\qquad\qquad\qquad$	$\qquad\qquad\qquad\qquad\qquad\qquad$
$U_{A}(t_1) \ \ = -{ 1 \over {5 k\Omega \cdot 1 \mu F} }\cdot\int_{0}^{10ms} 1V \ dt + 0V$		
$\qquad\qquad\qquad\qquad\qquad\quad$	$\qquad\qquad\qquad\qquad\qquad$	$\qquad\qquad\qquad\qquad\qquad\qquad$
$U_{A}(t_1) \ \ = -{ 1 \over {5 ms} } \quad \cdot 1V \ \cdot \int_{0}^{10ms} \ dt$		
$\qquad\qquad\qquad\qquad\qquad\quad$	$\qquad\qquad\qquad\qquad\qquad$	$\qquad\qquad\qquad\qquad\qquad\qquad$
$U_{A}(t_1) \ \ = \ -{ 1 \over {5 ms} }\ 1V \ [t]_{0}^{10ms} = -2V$		
$\qquad\qquad\qquad\qquad\qquad\qquad\qquad$	$\qquad\qquad\qquad\qquad\qquad$	$\qquad\qquad\qquad\qquad\qquad\qquad\qquad$

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Last update: **2021/05/09 09:53**