

temp

Student Group

First Name	Surname	Matrikel Nr.

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Gegeben sind folgende Gleichungen

$SU_A = f(U, E)S$	mit III.	test
$SU_A = \color{blue}{\int_{-U_D}^{-U_C} -U_C S}$	mit II. und I.	$\color{blue}{U_D} = \{ \text{1 over } A_D \} \cdot U_A \overset{A_D \rightarrow \infty}{\longrightarrow} 0S$
$SU_A = \int_{-U_D}^{-U_C} -U_C S$	mit V.	$\color{blue}{U_C} = \{ \text{1 over } C \} \cdot \int_{t_0}^{t_1} I_C \cdot dt + Q_0(t_0)S$
$SU_A = -\{ \text{1 over } C \} \cdot \int_{t_0}^{t_1} \color{blue}{I_C} \cdot dt + Q_0(t_0) S$	mit IV.	$\color{blue}{I_C} = I_R S$
$SU_A = \color{blue}{\int_{-U_D}^{-U_C} -\{ \text{1 over } C \} \cdot \int_{t_0}^{t_1} I_R \cdot dt + Q_0(t_0) \color{blue}{\int_{t_0}^{t_1} S}$	Ausklammern	
$SU_A = -\{ \text{1 over } C \} \cdot \int_{t_0}^{t_1} I_R \cdot dt - \color{blue}{\int_{t_0}^{t_1} Q_0(t_0) \text{ over } C} S$	Integrationskonstante betrachten	$\color{blue}{\int_{t_0}^{t_1} Q_0(t_0) \text{ over } C} = U_C(t_0) = -U_{A0}S$
$SU_A = -\{ \text{1 over } C \} \cdot \int_{t_0}^{t_1} \color{blue}{I_R} \cdot dt + U_{A0} S$	mit VI. und II.	$\color{blue}{I_R} = \{ U_R \text{ over } R \} = \{ U_E \text{ over } R \} S$
$SU_A = -\{ \text{1 over } C \} \cdot \int_{t_0}^{t_1} \color{blue}{I_R} \cdot dt + U_{A0} S$	Konstante vorziehen	
$SU_A = -\{ \text{1 over } R \cdot C \} \cdot \int_{t_0}^{t_1} U_E \cdot dt + U_{A0} S$		

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