

# rechnung\_umkehrintegrator

## Student Group

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|------------|---------|--------------|
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| $U_A = f(U_E)$                                               | mit III.                                  |                                            |
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| $U_A = \frac{1}{C} \int U_E dt + U_{A0}$                     | mit II. und I.                            | $U_D = \frac{1}{A_D} \int U_A dt + U_{D0}$ |
| $\frac{1}{C} \int U_A dt = \frac{1}{C} \int U_E dt + U_{A0}$ |                                           |                                            |
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| $\frac{1}{C} \int U_A dt = \frac{1}{C} \int U_E dt + U_{A0}$ |                                           |                                            |
| $U_A = -\frac{1}{C} \int U_E dt + U_{A0}$                    | mit IV.                                   | $U_C = U_R$                                |
| $\frac{1}{C} \int U_A dt = \frac{1}{C} \int U_E dt + U_{A0}$ |                                           |                                            |
| $U_A = \frac{1}{C} \int U_E dt + U_{A0}$                     | Ausklammern                               |                                            |
| $\frac{1}{C} \int U_A dt = \frac{1}{C} \int U_E dt + U_{A0}$ |                                           |                                            |
| $U_A = -\frac{1}{C} \int U_E dt + U_{A0}$                    | Integrationskonstante betrachten          | $U_{A0} = U_C(t_0) = -U_{A0}$              |
| $\frac{1}{C} \int U_A dt = \frac{1}{C} \int U_E dt + U_{A0}$ |                                           |                                            |
| $U_A = -\frac{1}{C} \int U_E dt + U_{A0}$                    | mit VI. und II.                           | $U_R = U_E$                                |
| $\frac{1}{C} \int U_A dt = \frac{1}{C} \int U_E dt + U_{A0}$ |                                           |                                            |
| $U_A = -\frac{1}{C} \int U_E dt + U_{A0}$                    | Konstante vorziehen                       |                                            |
| $\frac{1}{C} \int U_A dt = \frac{1}{C} \int U_E dt + U_{A0}$ |                                           |                                            |
| $U_A = -\frac{1}{C} \int U_E dt + U_{A0}$                    | Zeitkonstante $\tau = R \cdot C$ einfügen |                                            |
| $\frac{1}{C} \int U_A dt = \frac{1}{C} \int U_E dt + U_{A0}$ |                                           |                                            |
| $U_A = -\frac{1}{\tau} \int U_E dt + U_{A0}$                 |                                           |                                            |
| $\frac{1}{C} \int U_A dt = \frac{1}{C} \int U_E dt + U_{A0}$ |                                           |                                            |

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