

Mathe

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1 nochmal integral einfuehrung

Aufgabe 16 a)

$$\int_0^t 2 \, dx = [2x]_0^t$$
$$2 \cdot t - 0 = 2t$$

b)

$$\int_0^1 -x \, dx = \left[-\frac{x^2}{2} \right]_0^1$$
$$= -\frac{1^2}{2}$$

c)

$$\int_0^t \frac{3}{2}x \, dx = \left[\frac{\frac{3}{2}x^2}{2} \right]_0^t$$
$$= \frac{\frac{3}{2}t^2}{2}$$