



**Lösungen**

R2.1 a)  $\int_4^6 f(x) dx \approx 2$

b)  $\int_0^2 f(x) dx \approx -1.5$

R2.2 a)  $-\frac{2}{3}t$

b)  $\frac{2}{3}x$

c)  $\frac{1}{3}\sqrt{(1+x^2)^3} + C$

d)  $\frac{x}{2}(\sin(\ln(x)) + \cos(\ln(x))) + C$

R2.3  $A = 13$

R2.4 a)  $\varphi = 2 \arctan(3) - \frac{\pi}{2} = 0.927\dots = 53.1\dots^\circ$

b)  $A = \frac{128}{3} = 42.6\dots$