

## 0.1 [Integration durch] Substitution

Kettenregel:

$$\phi(t) = F(g(t)); \quad \dot{\phi}(t) = F'(g(x)) \cdot g'(t);$$

$$\int f(g(t))g'(t) dt = F(g(t)) + C = \int f(x) dx \text{ mit } x = g(t);$$