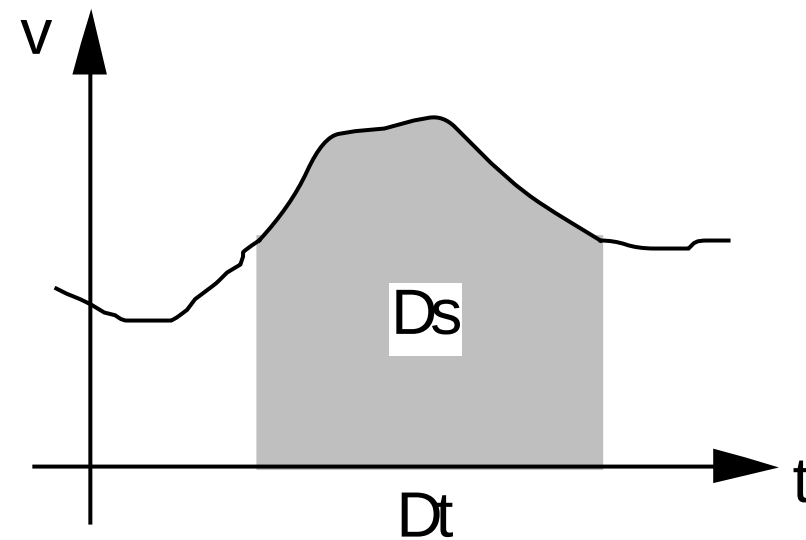
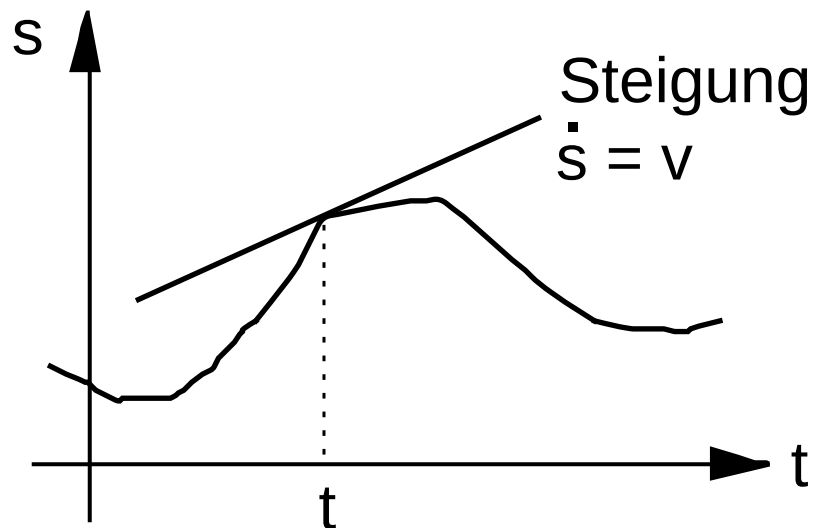


Ort s Geschwindigkeit v

$$v_{\text{mittel}} = \frac{Ds}{Dt}$$

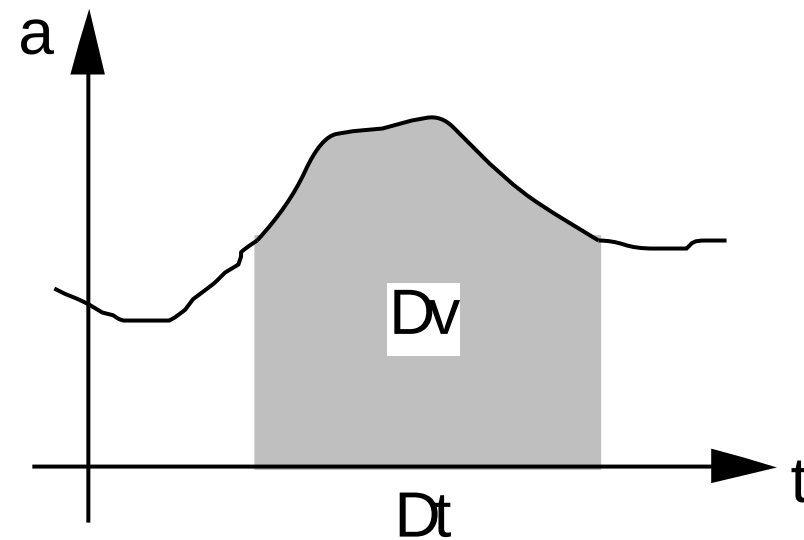
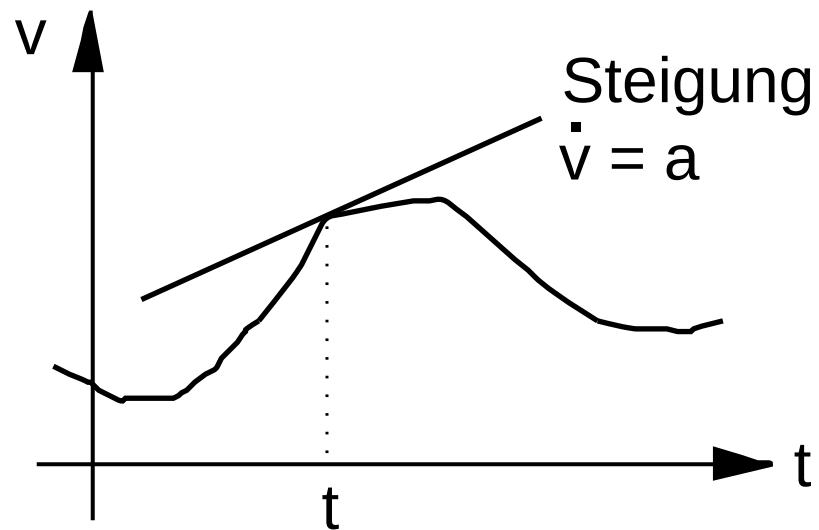
$$v = \dot{s}$$



Geschwindigkeit v Beschleunigung a

$$a_{\text{mittel}} = \frac{Dv}{Dt}$$

$$a = \dot{v}$$



Gleichmässig beschleunigte Bewegung

Annahmen: $a = \text{konst.}$

$$s = 0 \quad \text{bei} \quad t = 0$$

$$v = v_0 + a t$$

$$s = v_0 t + \frac{1}{2} a t^2$$