



$$v_A = \frac{1 \text{ m}}{3 \text{ s}} = \frac{1}{3} \text{ m/s} = 0,3 \text{ m/s}$$

$$s = v \cdot t + s_0 \quad v = \frac{\Delta s}{\Delta t} \quad v = \frac{s_f - s_i}{t_f - t_i}$$

$$s = 0,3t + 0$$

A

$$\boxed{s = 0,3t}$$

$$v_B = \frac{6-3}{2,5} = \frac{3}{2,5} = 1,2 \text{ m/s}$$

$$s = vt + s_0 = 1,2t + 3$$

$$v = 55 \text{ km/h} = \frac{55 \times 1000 \text{ m}}{3600 \text{ s}} = \frac{55 \text{ m}}{3,6 \text{ s}} = 15 \text{ m/s}$$

$$\Delta t = 1,0 \text{ s}$$

$$a = -5,3 \text{ m/s}^2$$

$$\Delta s = ?$$

$$s = s_0 + vt = 15 \text{ m}$$

$$s = s_0 + v_0 t + \frac{1}{2} a t^2$$

$$s = 15 \text{ m} + 15 \text{ m/s} + \frac{1}{2} (-5,3 \text{ m/s}^2) \left( \frac{15}{-5,3} \right)^2 \quad \begin{matrix} \text{m/s} \\ \text{m/s}^2 \end{matrix} \quad \begin{matrix} \text{m} \\ \text{s} \end{matrix} \cdot \frac{\text{s}^2}{\text{s}^2}$$

$$s = 15 \text{ m} + 15 \text{ m} \cdot \frac{15}{-5,3} + \frac{1}{2} (-5,3 \text{ m/s}^2) \left( \frac{225}{28,1} \right)$$

$$s = 15 \text{ m} + 15 \text{ m} \cdot \frac{15}{-5,3} - 21,2 \text{ m} = \quad \Delta t = \frac{\Delta v}{a}$$

