

1.1

$$v_{\text{cost}} = 60 \text{ Km/h} \approx 16,67 \text{ m/s}$$

$$t_1 = 20 \text{ min} = 1200 \text{ s}$$

$$\alpha = 45^\circ$$

$$t_2 = 40 \text{ min} = 2400 \text{ s}$$

$$t_3 = 80 \text{ min} = 4800 \text{ s}$$

$$v_m = ?$$

$$\Delta t = t_1 + t_2 + t_3 = 8400 \text{ s}$$

$$\vec{v}_m = \frac{\Delta s}{\Delta t} = \frac{\Delta s_x}{\Delta t} \cdot \vec{i} + \frac{\Delta s_y}{\Delta t} \cdot \vec{j}$$