

1.

str. 33 / úloha 165

$$\Delta_1 = ? \text{ [km]}$$

$$t_1 = 10 \text{ min} \doteq 0,17 \text{ h}$$

$$v_1 = 63 \frac{\text{km}}{\text{h}}$$

$$\Delta_2 = ? \text{ [km]}$$

$$t_2 = 5 \text{ min} \doteq 0,083 \text{ h}$$

$$v_2 = 72 \frac{\text{km}}{\text{h}}$$

$$\Delta_3 = 0 \text{ km}$$

$$t_3 = 10 \text{ min} \doteq 0,17 \text{ h}$$

$$v_3 = 0 \frac{\text{km}}{\text{h}}$$

$$\Delta_4 = ? \text{ [km]}$$

$$t_4 = 15 \text{ min} = 0,25 \text{ h}$$

$$v_4 = 54 \frac{\text{km}}{\text{h}}$$

$$v_p = ? \left[\frac{\text{km}}{\text{h}} \right]$$

Řešení:

$$N_p = \frac{\Delta_c}{\Delta_c}$$

$$\Delta_c = \Delta_1 + \Delta_2 + \Delta_3 + \Delta_4$$

$$\Delta_c = \Delta_1 + \Delta_2 + \Delta_3 + \Delta_4$$

2.

$$\Delta_1 = n_1 \cdot A_1$$

$$\Delta_2 = n_2 \cdot A_2$$

$$\Delta_1 = 63 \cdot 0,17$$

$$\Delta_2 = 72 \cdot 0,083$$

$$\underline{\Delta_1 = 10,71 \text{ km}}$$

$$\underline{\Delta_2 = 5,976 \text{ km}}$$

$$\underline{\Delta_3 = 0 \text{ km}}$$

$$\Delta_4 = n_4 \cdot A$$

$$\Delta_4 = 54 \cdot 0,25$$

$$\underline{\Delta_4 = 13,5 \text{ km}}$$

$$A_c = \Delta_1 + \Delta_2 + \Delta_3 + \Delta_4$$

$$\Delta_c = 10,71 + 5,976 + 0 + 13,5$$

$$\underline{A_c = 30,186 \text{ km}}$$

$$A_c = A_1 + A_2 + A_3 + A_4$$

$$A_c = 0,17 + 0,083 + 0,17 + 0,25$$

$$\underline{A_c = 0,673 \text{ h}}$$

3.

$$v_p = \frac{A_c}{\lambda_c}$$

$$v_p = \frac{30,186}{0,673}$$

$$v_p = 44,85 \frac{\text{km}}{\text{h}}$$

$$v_p = 45 \frac{\text{km}}{\text{h}}$$

Průměrná rychlosť automobilu je $45 \frac{\text{km}}{\text{h}}$.