



$$t_1 = 10$$

$$s_1 = t_1 \cdot (\sqrt{c^2 - v^2}) + s_1$$

$$s_2 = t_2 \cdot (\sqrt{c^2 - v^2})$$

$$s_1 > s_2 \quad ; \quad s_1 - s_2 = 4 \text{ km}$$

$$t_1 + t_2 = 14 = t_0$$

$$v_T = \frac{s_1 - s_2}{t_1 + t_2} = \frac{4}{2} = 2 \text{ km/h}$$

s_2

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$$s_1 = 30 \text{ km}$$

$$v = 15 \text{ m/s}$$

$$s_2 = 40 \text{ km}$$

$$t = 10 = 60 \text{ min}$$

$$t_1 = \frac{s_1}{v_1} = \frac{30000}{15} = 2000 \text{ s}$$

$$v \frac{s_2}{t_2} = \frac{40000}{60} = \frac{40000}{60 \cdot 60} = 11.11 \text{ m/s}$$

$$v = \frac{s_1 + s_2}{t_1 + t_2} = \frac{30000 + 40000}{2000 + 3600} = \frac{70000}{5600} = 12.5$$

Answer: 12,5

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$\sqrt{3}$

$$S = 620 \text{ cm}^2$$

$$h = 0,50 \text{ g/cm} = 5 \text{ cm}$$

$$V = 1000$$

$$V = S \cdot h = 620 \cdot 5 = 3100$$

$$1 \text{ m}^3 = 3100 : 1000 = 3,1 \text{ m}^3$$

Answer: 3,1 м³

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Answer: 23 s

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