

II ( )

8

-2 40 .

1

( , ) .

$v_2 = 20$  / .

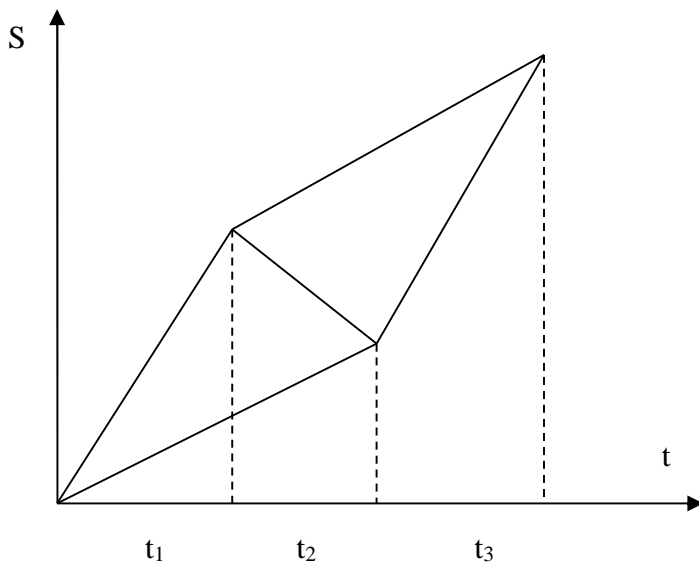
$v_1 = 4$  / , -

$\Delta t_1 + \Delta t_2$ ,  $\Delta t_2$  -

$$v_1(\Delta t_1 + \Delta t_2) + v_2\Delta t_1 = v(\Delta t_1 + \Delta t_2 + \Delta t_1),$$

$$v_2\Delta t_1 - v_2\Delta t_2 = v_1(\Delta t_1 + \Delta t_2).$$

$$v = \frac{3v_1 + v_2}{3v_2 + v_1} = 10 \text{ / .}$$



- 100.

80  
60

20

2

$$u_1 = 3 \quad /$$

$$u_2 = 10 \quad / .$$

$$v_0 .$$

$$\frac{S}{u_1 + v_0} = 2 \left( \frac{S}{u_2 + v_0} + \frac{S}{u_2 - v_0} \right),$$

S -

$$v_0^2 + 4u_2v_0 + 4u_2v_1 - u_2^2 = 0.$$

$$v_0 = -2u_2 \pm \sqrt{5u_2^2 - 4u_1u_2} = -20 \pm 19,5 \quad / .$$

$$v_0 = -39,5 \quad /$$

$$, v_0 = -0,5 \quad / , . .$$

- 80.

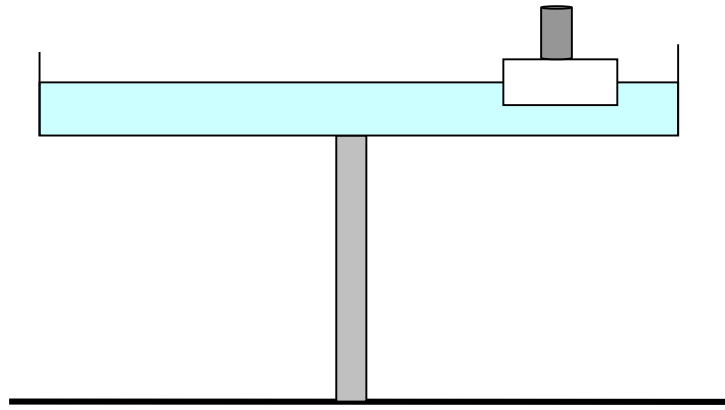
60

30

20

3

( . . ).



30

- 60.

4

100

2<sup>0</sup>

0<sup>0</sup>

10

15

100

?

15

840

$$\lambda = 3,36 \cdot 10^5$$

10

33,6

- 80.

60

40

20