

2m V:  $U_1 = 15 \text{ m/s}$

$t_1 = 20 \text{ s}$

$t_2 = 15 \text{ s} = 60 \text{ s}$

$S_1 = S_2$

$U_2 = ?$

$(1+55)$

$\sqrt{0.1}$

$S_1 = U_1 t_1 (1+55)$

$S_2 = U_2 t_2 (1+55)$

$U_1 t_1 = U_2 t_2 (1+55)$

$U_2 = \frac{U_1 t_1}{t_2} = 5 \text{ m/s} (1+55)$

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2m V:

$S_1 = 200 \text{ m}$

$t_1 = 10 \text{ s}$

$S_2 = 510 \text{ m}$

$U_2 = U_1 - 3 \text{ m/s}$

$t_2 = ?$

$(1+)$

$U_1 = \frac{S_1}{t_1} = 20 \text{ m/s} (1+)$

$U_2 = 20 - 3 = 17 \text{ m/s} (1+)$

$t_2 = \frac{S_2}{U_2} = \frac{510}{17} = 30 \text{ s} (2+)$

$\sqrt{0.2}$

2m V:

$U_1 = 30 \text{ m/s}$

$t_1 = t_2$

$S_1 = S$

$S_2 = 5S$

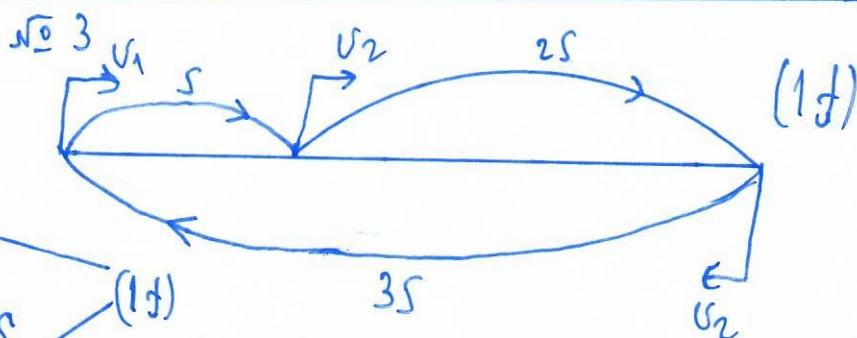
$U_2 = ?$

$t_1 = \frac{S_1}{U_1} = \frac{S}{U_1}$

$t_2 = \frac{S_2}{U_2} = \frac{5S}{U_2}$

$t_1 = t_2$

$\frac{S}{U_1} = \frac{5S}{U_2} (1+) \quad U_2 = 5U_1 = 150 \text{ m/s} (1+)$



2m V:

$U_1 = 15 \text{ m/s}$

$U_2 = 72.5 \text{ m/s} = 20 \text{ m/s} (1+)$

$e_1 = 100 \text{ m}$

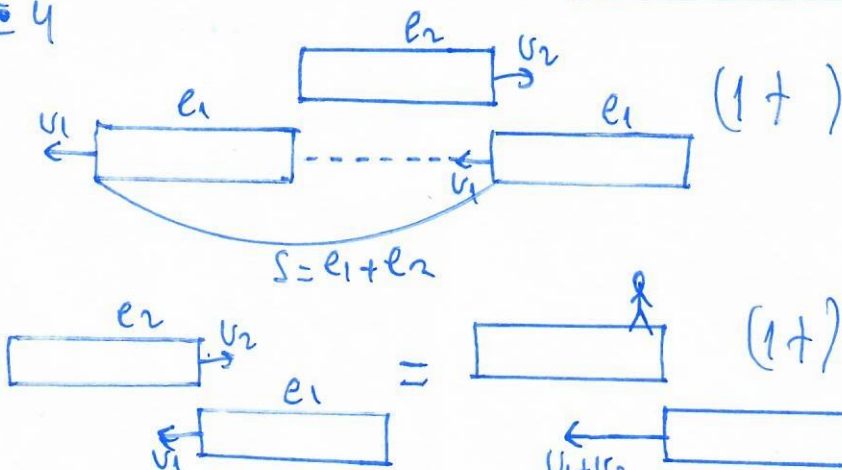
$t = 10 \text{ s}$

$e_2 = ?$

$S = Ut$   
 $S = e_1 + e_2$   
 $U = U_1 + U_2$

$(1+) e_1 + e_2 = (U_1 + U_2) \cdot t$

$\sqrt{0.4}$



$e_1 = 250 \text{ m} (1+)$

№ 5

$t = 30 \text{ s} = 1800 \text{ s}$   
 $S = 3600 \text{ J}$   
 $U_1 = 15 \text{ J/s}$   
 $U_{22} = ?$

$U = U_1 + U_{22} \quad (1)$   
 $U = \frac{S}{t} \quad (1)$   
 $U_1 + U_{22} = \frac{S}{t}$



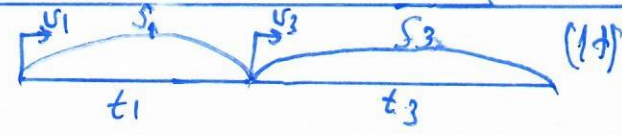
$15 + U_{22} = \frac{3600}{1800}$   
 $U_{22} = 5 \text{ J/s} \quad (1)$

№ 6

$S_1 = 600 \text{ J}$   
 $U_1 = 10 \text{ J/s}$   
 $t_2 = 20 \text{ s}$   
 $S_2 = 0$   
 $S_3 = 800 \text{ J}$   
 $U_3 = 20 \text{ J/s}$

$U_{\text{ср}} = \frac{S_1 + S_2 + S_3}{t_1 + t_2 + t_3} \quad (1)$

$U_{\text{ср}} = \frac{600 + 0 + 800}{\frac{S_1}{U_1} + t_2 + \frac{S_3}{U_3}} = \frac{1400}{\frac{600}{10} + 20 + \frac{800}{20}} = \frac{1400}{120} = \frac{35}{3} \text{ J/s} \quad (2)$



$U_{\text{ср}} = ?$

а) 0-10 s движение

$U_1 = 5 \text{ J/s}$   
 $t_1 = 4 \text{ s}$   
 $U_2 = 2 \text{ J/s}$   
 $t_2 = 6 \text{ s}$

$U_{\text{ср}} = \frac{S_1 + S_2}{t_1 + t_2} \quad (1)$   
 $U_{\text{ср}} = \frac{U_1 t_1 + U_2 t_2}{t_1 + t_2}$

$U_{\text{ср}} = \frac{5 \cdot 4 + 2 \cdot 6}{4 + 6} = 3,6 \text{ J/s} \quad (1)$

$U_{\text{ср}} = ?$

б) 0-18 s движение

$U_1 = 6 \text{ J/s}$   
 $t_1 = 4 \text{ s}$   
 $U_2 = 2 \text{ J/s}$   
 $t_2 = 6 \text{ s}$   
 $U_3 = 9 \text{ J/s}$   
 $t_3 = 8 \text{ s}$

$U_{\text{ср}} = \frac{S_1 + S_2 + S_3}{t_1 + t_2 + t_3} \quad (1)$

$U_{\text{ср}} = \frac{U_1 t_1 + U_2 t_2 + U_3 t_3}{t_1 + t_2 + t_3} \quad (1)$

$U_{\text{ср}} = \frac{6 \cdot 4 + 2 \cdot 6 + 9 \cdot 8}{4 + 6 + 8} = 6 \text{ J/s}$

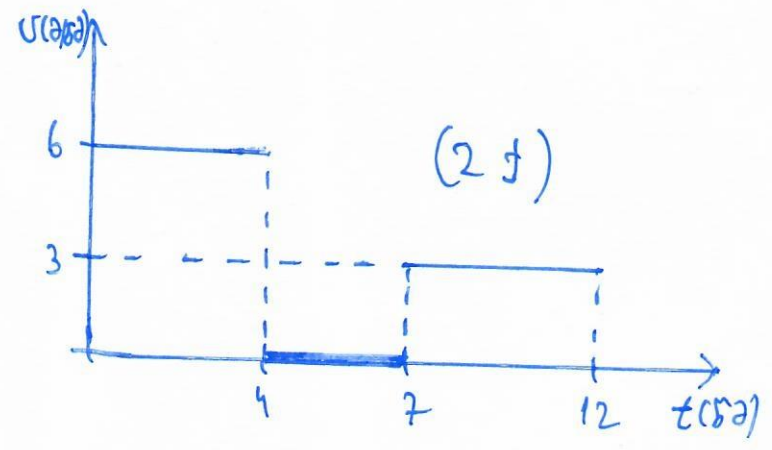
$U_{\text{ср}} = ?$

$U_1 = \frac{S_1}{t_1} = \frac{24}{4} = 6 \text{ J/s} \quad (1)$

$U_2 = \frac{S_2}{t_2} = 0 \quad (1)$

$U_3 = \frac{S_3}{t_3} = \frac{30 - 24}{9 - 7} = 3 \text{ J/s} \quad (1)$

$t_1 = \frac{24}{6} = 4 \text{ s}$



(2)