

Дано:  
 $v_{cp} = 16 \text{ км/ч}$   
 $S_1 = S_2 = \frac{1}{2} S$   
 $v_1 = 8 \sqrt{2}$

Найти  $v_2$  - ?

Решение  $\checkmark$

$$v_{cp} = \frac{S}{t}$$

$$v_{cp} = \frac{S_1 + S_2}{t_1 + t_2} \quad \checkmark \quad 2.5$$

$$v_{cp} = \frac{S}{\frac{S_1}{v_1} + \frac{S_2}{v_2}}$$

$$v_{cp} = \frac{S}{\frac{1}{2} S \left( \frac{1}{v_1} + \frac{1}{v_2} \right)} \quad \times$$

$$v_{cp} = \frac{2}{\frac{1}{v_1} + \frac{1}{v_2}} = \frac{2v_1 v_2}{v_1 + v_2}$$

$$v_{cp} = \frac{16 \sqrt{2}}{9 \sqrt{2}} \quad \times$$

$$v_{cp} = \frac{16 \sqrt{2}}{9} \quad \times$$

$$16 \sqrt{2} = 9 \sqrt{2} v_{cp}$$

$$v_2 = \frac{9 v_{cp}}{16}$$

$$v_2 = \frac{9 \cdot 16 \text{ км/ч}}{16} = 9 \text{ км/ч}$$

Ответ:  $v_2 = 9 \text{ км/ч}$

Дано:  $C_M$   
 $n = 4,5 \text{ Т}$   $300 \text{ м}$   
 $A = 30 \text{ МВ}$   $3 \cdot 10^7 \text{ Дж}$   
 $a = 0,1 \text{ м/с}^2$   $0,1 \text{ м/с}^2$   
 $F_{comp} =$   
 $= 0,05 \text{ П}$

$v$  - ?

Решение  $\checkmark$

$$v = \frac{S}{t}$$

$$v = \frac{A}{F}$$

$$v = \frac{0,05 \text{ П}}{t}$$

$$A = FS \quad \checkmark$$

$$S = \frac{A}{F}$$

$a = 0,1 \text{ м/с}^2$ , но  $F_{comp} = F$   
 м.к.  $F_{comp} = F_{max}$ , но  $a = 0$   
 $av = noem$