

Решено

N1

$$m = 1 \text{ кг}$$

$$\varphi = \frac{\pi}{2}$$

$$t = 2 \text{ с}$$

$$r = 1,2 \text{ м}$$

$$\Delta p = ?$$

$$\vec{p} = m\vec{v}$$

$$\Delta p = \sqrt{p_1^2 + p_2^2}$$

$$\Delta p = \sqrt{(mvr)^2 + (mvr)^2}$$

$$\Delta p = mvr\sqrt{2}$$

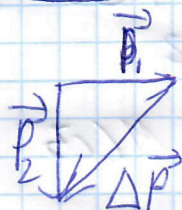
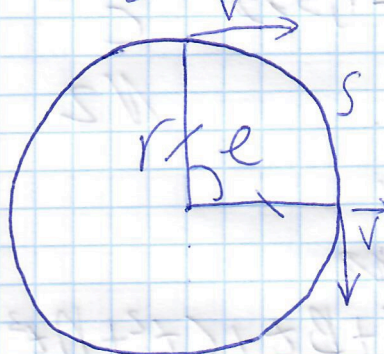
или: общее расстояние

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

$s = r\varphi$ - общая длина.

$$\Delta p = m \frac{s\sqrt{2}}{t} = \frac{m r \varphi \sqrt{2}}{t} = 1 \cdot \frac{1,2 \cdot \pi \cdot \sqrt{2}}{2 \cdot 2} =$$

радианальный
мгновенный



M3215

Решено

$$= 1,333 \frac{m \cdot m}{C}$$

$$op = 1,333 \frac{m \cdot m}{C}$$

N2

Scemo:

$$m = 2 \text{ kg}$$

$$x = A + Bt + Ct^2 + Dt^3 \quad \Sigma \vec{F} = m\vec{a}$$

$$C = 1 \text{ m/c}^2$$

$$D = -0,2 \text{ m/c}^3$$

$$t_1 = 2 \text{ c}$$

$$t_2 = 5 \text{ c}$$

$$F = 0 \text{ H}$$

t-?

$$a = 2C + 6Dt = 0$$

$$2 - 0,2t = 0$$

$$t = 1,67 \text{ c}$$

$$\Rightarrow \text{mm } 1,67 \text{ c } F = 0$$

no HZH

$$\Sigma \vec{F} = m\vec{a}$$

$$a = x'' = 2C + 6Dt$$

$$\text{em } t_1 = 2 \text{ c},$$

$$\text{mo } a_1 = -0,4 \text{ m/c}^2$$

$$\text{em } t_2 = 5 \text{ c},$$

$$\text{mo } a_2 = -4 \text{ m/c}^2$$

$$F_1 = ma_1 = -0,8 \text{ H}$$

$$F_2 = ma_2 = -8 \text{ H}$$

$$\text{em } F = 0, \text{ mo}$$

$$a = 0$$