

آرس دوالي - ٨١٠٤٤٠٠

Day. Month. Year.

Subject.

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$$x_t = t^3 + t \quad \xrightarrow{\text{مسince}} \quad v_t = 3t^2 + 1 \quad \text{الفـ ١}$$

$$v_0 = 1$$

$$v_1 = 5$$

$$W_{\text{افـ ١}} = \Delta K = \frac{1}{2} m (v_1^2 - v_0^2) = \frac{1}{2} \times 2 \times (14 - 1) = 14 \text{ J}$$

$$r_t = 3t^2 + 1 \quad \xrightarrow{\text{مسince}} \quad a_t = 6t \quad \text{بـ ١}$$

$$P_{\text{خطـ ١}} = \frac{F dx}{dt} = F r = m a r$$

$$\longrightarrow P_{\text{خطـ ١}} = 2 \times 6t \times (3t^2 + 1) = 36t^3 + 12t$$

آرس روائی - ۱۰۱، ۴۴۰۰ - تاریخ

Day, Month, Year.

Subject.

$A \rightarrow C$

$$W = \int_A^C F_x dx + \int_A^C F_y dy$$

$$= \int_A^C x n y dx + \int_A^C y dy$$

$$\begin{aligned} \tan \theta = 1 \Rightarrow \frac{x}{y} = 1 \\ \text{طبقه کل} \rightarrow x = y \end{aligned} = \int_A^C x n dx + \int_A^C y dy$$

$$= \left[\frac{1}{2} x^2 \right]_0^1 + \left[\frac{y^2}{2} \right]_0^1$$

$$= \frac{1}{2} - 0 + \frac{1}{2} - 0 = \frac{1}{2} J$$

$A \rightarrow B \rightarrow C$

(= اس فرم F_y ب' $B \rightarrow C$, صفر و F_x ب' $A \rightarrow B$)

$$W = \int_A^B F d + \int_B^C F_x dx$$

$$= \int_A^B y dy + \int_B^C x n y dx$$

$$\downarrow \cancel{y = 1}$$

$$\int_A^B y dy + \int_B^C x n dx$$

$$= \frac{y^2}{2} \Big|_{A(0)}^{B(1)} + \left[x^2 \right]_{B(0)}^{C(1)} = \frac{1}{2} - 0 + 1 - 0 = \frac{3}{2} J$$

در دو میانوارت سه $A \rightarrow B \rightarrow C$ و $A \rightarrow C$ ()

مسیر پیشگاهی