

Problem 6: (20 pts)

Let $\vec{r}(t)$ be the position vector of a particle moving in a plane, where

$$\vec{r}(t) = (t^3 - 3t^2 + 4t) \hat{i} + (t^3 - 3t^2 + 4t) \hat{j}$$

$$0 \leq t \leq 5 \text{ s}$$

- a. Based on the Mean Value Theorem for Integrals, we have:

$$\text{the average velocity} = \frac{1}{b-a} \int_a^b \vec{v}(t) dt$$

$$\text{here, } a=0, b=5 \text{ s} \Rightarrow \frac{1}{b-a} = \frac{1}{5}$$

$$\begin{aligned} \Rightarrow \text{Average velocity} &= \frac{1}{5-0} \int_0^5 \vec{v}(t) dt \\ &= \frac{1}{5} \int_0^5 (3t^2 - 6t + 4) dt \quad \text{Using calculator,} \\ &= \frac{1}{5} \left[\frac{3t^3}{3} - \frac{6t^2}{2} + 4t \right]_0^5 \quad \text{the last part} \\ &= \frac{1}{5} \left[\frac{t^3}{1} - \frac{3 \times (5)^2}{1} + (4 \times 5) \right] = \frac{1}{5} \left(\frac{125}{1} - \frac{75}{1} + \frac{20}{1} \right) = \frac{10}{1} = 10 \text{ m/s} \end{aligned}$$

- d. The instantaneous velocity of \vec{r} is given by $\vec{v} = \frac{d\vec{r}}{dt} = (3t^2 - 6t + 4) \hat{i} + (3t^2 - 6t + 4) \hat{j}$
 $|\vec{v}(5)| = 5^2 - 6 \times 5 + 4 = 10 \text{ m/s} \Rightarrow \text{speed} = 10 \text{ m/s}$

- e. So, when the particle is moving right, its velocity will be positive, i.e., moving along \hat{i} direction

$$\Rightarrow v_x = v_x > 0$$

$$\Rightarrow (3t^2 - 6t + 4) > 0$$

$$\Rightarrow \begin{cases} t > 0 \\ t < 5 \end{cases} \Rightarrow \begin{cases} t > 0 \\ t < 4 \end{cases} \Rightarrow \begin{cases} t > 0 \\ t < 4 \end{cases}$$

So, in intervals $[0, 4]$ and $[4, 5]$, the particle is moving right.

Flvs Algebra Module 6 Dbq Answers

Joacim Rocklöv



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