

### Problem 6: (20 pts)

Let  $\vec{r}(t)$  be the position vector of a particle moving in the  $xy$ -plane. Let  $\vec{v}(t) = \vec{r}'(t)$  be the velocity vector.

$$0 \leq t \leq 4\pi \quad \text{and} \quad [0, 4\pi]$$

$$r(t) = 5t$$

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

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

$$\text{here } a = 0, b = 4\pi \quad \Rightarrow \quad \frac{1}{b-a} = \frac{1}{4\pi}$$

$$\begin{aligned} \Rightarrow \text{Average velocity} &= \frac{1}{4\pi} \int_0^{4\pi} v(t) dt \\ &= \frac{1}{4} \int_0^{4\pi} (5t^2 - 3t + 1) dt \quad \text{Using calculator,} \\ &= \frac{1}{4} \left[ \frac{5t^3}{3} - \frac{3t^2}{2} + t \right]_0^{4\pi} \quad \text{the last part} \\ &= \frac{1}{4} \left[ \frac{5}{3} - \frac{3 \times (4\pi)^2}{2} + (4\pi) \right] = \frac{5}{12} - \frac{24\pi}{1} + \frac{10}{1} = 4.8333 \text{ (m/s)} \end{aligned}$$

- d. The instantaneous velocity of  $\vec{r}$  is given by  $v = \text{Speed} = |\vec{v}(t)|$   
 $v(t) = 5t^2 - 3t + 1$  at  $t = 2\pi$  is  $18\pi - 6\pi + 1 = 12\pi + 1$  (m/s)

- e. So, when the particle is moving right, its velocity will be positive. When moving left  $< 0$

$$\Rightarrow 5t^2 - 3t + 1 > 0$$

$$\Rightarrow 5t^2 - 3t + 1 < 0 \quad \text{or} \quad 5t^2 - 3t + 1 = 0$$

$$\Rightarrow \begin{cases} t = 0.30 \\ t = 0.68 \\ t = 0.68 \end{cases} \Rightarrow \begin{cases} t > 0.30 \\ t < 0.68 \\ t < 0.68 \end{cases} \Rightarrow \begin{cases} t > 0.30 \\ t < 0.68 \\ t < 0.68 \end{cases}$$

So, on intervals  $[0, 0.30]$  and  $[0.68, 4\pi]$ , the particle is moving right.

# Flvs Algebra Module 6 Dbq Answers

**Daniela Niemeyer**



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