

Problem 6: (20 pts)

Let f be a function $f: [0, 2] \rightarrow \mathbb{R}$ such that $f(x) = 3x + 4$ for $x \in [0, 1]$ and $f(x) = 5x^2$ for $x \in [1, 2]$.

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

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

then, since $0 \leq t \leq 2 \Rightarrow \frac{b-a}{1} = 2$

$$\begin{aligned} \Rightarrow \text{Average velocity} &= \frac{1}{2-0} \int_0^2 v(t) dt \\ &= \frac{1}{2} \int_0^2 (3t^2 + 4 + 5t^2) dt \quad \text{Using calculator,} \\ &= \frac{1}{2} \left[\frac{3t^3}{3} + \frac{4t^1}{1} + \frac{5t^3}{3} \right]_0^2 \quad \text{the last part} \\ &= \frac{1}{2} \left[\frac{t^3}{3} + \frac{5(16)^3}{3} + (8+4) \right] = \frac{1}{2} \left(\frac{40}{3} + \frac{128}{3} + 12 \right) = 2 \text{ m/s} \end{aligned}$$

- d. The instantaneous velocity of S second is $v = \text{Speed} = |v|$
 $v(S) = 3^2 + 4 + 5(2) = 18 \text{ m/s} \Rightarrow |18| = 18 \text{ m/s}$

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

$$\Rightarrow 3t^2 + 4 + 5t^2 > 0$$

$$\Rightarrow 8t^2 + 4 > 0 \Rightarrow t > 0$$

$$\Rightarrow \begin{cases} t > 0 \\ t < 2 \end{cases} \Rightarrow \begin{cases} t > 0 \\ t < 2 \end{cases} \Rightarrow [0, 2]$$

So, on intervals $[0, 2]$ and $[2, 4]$, the particle is moving right.

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