

Problem 5 (2014)

Let f be a function on $[0, 2\pi]$ defined by $f(x) = \cos(x)$.
(a) Let R be the region bounded by the graph of f and the x -axis.
(b) Let S be the region bounded by the graph of f and the x -axis.

(a) Find the area of the region R using the definite integral.
(b) Find the average velocity of f on the interval $[0, 2\pi]$.

The average velocity is $\frac{1}{b-a} \int_a^b f(x) dx$

Here $a=0$, $b=2\pi$ and $f(x) = \cos(x)$

$$\begin{aligned} \text{Average velocity} &= \frac{1}{2\pi - 0} \int_0^{2\pi} \cos(x) dx \\ &= \frac{1}{2\pi} \int_0^{2\pi} (\cos(x) - 0 + 0) dx \\ &= \frac{1}{2\pi} \left[\frac{\sin(x)}{1} - \frac{0x^2}{2} + 0x \right]_0^{2\pi} \\ &= \frac{1}{2\pi} \left[\frac{\sin(2\pi)}{1} - \frac{\sin(0)}{1} + 0(2\pi) \right] = \frac{1}{2\pi} (\sin(2\pi) - \sin(0)) = \frac{1}{2\pi} (0 - 0) = 0 \end{aligned}$$

Using interval $[0, 2\pi]$ instead of $[0, \pi]$ as in the previous problem.

(b) The instantaneous velocity of f is given by $f'(x) = -\sin(x)$.
(c) The average velocity of f is given by $\frac{1}{b-a} \int_a^b f(x) dx$.

(c) When the particle is moving right, its velocity will be positive. When moving left, it will be negative.
So, $v > 0$ and $v < 0$

$$\begin{aligned} \left[\begin{array}{l} v > 0 \\ v < 0 \end{array} \right] & \Rightarrow \left[\begin{array}{l} -\sin(x) > 0 \\ -\sin(x) < 0 \end{array} \right] \Rightarrow \left[\begin{array}{l} \sin(x) < 0 \\ \sin(x) > 0 \end{array} \right] \end{aligned}$$

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

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