

Problem 5 (2014)

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

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

The average value of f is $\frac{1}{b-a} \int_a^b f(t) dt$

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

$$\begin{aligned} \text{Average value} &= \frac{1}{2\pi - 0} \int_0^{2\pi} \cos(2t) dt \\ &= \frac{1}{2\pi} \int_0^{2\pi} \cos(2t) dt \\ &= \frac{1}{2\pi} \left[\frac{\sin(2t)}{2} \right]_0^{2\pi} \\ &= \frac{1}{2\pi} \left[\frac{\sin(4\pi)}{2} - \frac{\sin(0)}{2} \right] = \frac{1}{2\pi} \left[\frac{0}{2} - \frac{0}{2} \right] = \frac{0}{2\pi} = 0 \end{aligned}$$

Using substitution: let $u = 2t$, then $du = 2 dt$

(b) The instantaneous velocity of S is given by $v(t) = \sin(2t)$. The speed is $|v(t)| = |\sin(2t)|$. The average speed is $\frac{1}{2\pi} \int_0^{2\pi} |\sin(2t)| dt = 2$ units.

(c) When the particle is moving right, its velocity is positive. When moving left, its velocity is negative.

$$\begin{aligned} \text{When } v(t) > 0 & \Rightarrow \sin(2t) > 0 \\ \text{When } v(t) < 0 & \Rightarrow \sin(2t) < 0 \end{aligned}$$

$$\begin{aligned} \text{When } v(t) > 0 & \Rightarrow \sin(2t) > 0 \\ \text{When } v(t) < 0 & \Rightarrow \sin(2t) < 0 \end{aligned}$$

On the intervals $[0, \pi]$ and $[2\pi, 3\pi]$, the particle is moving right.

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