

Problem 5 (2014)

Let  $f$  be a function on  $[0, 2\pi]$  such that  $f(x) = 2\cos(x)$ .  
(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  $[0, 2\pi]$ .

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

Here,  $a=0$ ,  $b=2\pi$  so  $\frac{1}{2\pi} \int_0^{2\pi} f(x) dx$

Average velocity =  $\frac{1}{2\pi} \int_0^{2\pi} 2\cos(x) dx$

$$= \frac{1}{\pi} \int_0^{2\pi} \cos(x) dx = \frac{1}{\pi} [\sin(x)]_0^{2\pi}$$

$$= \frac{1}{\pi} [\sin(2\pi) - \sin(0)] = \frac{1}{\pi} [0 - 0] = 0$$

$$= \frac{1}{\pi} \left[ \frac{\sin^2(x)}{2} - \frac{\cos^2(x)}{2} + \sin(x)\cos(x) \right] = \frac{1}{\pi} \left[ \frac{\sin^2(2\pi)}{2} - \frac{\cos^2(2\pi)}{2} + \sin(2\pi)\cos(2\pi) \right] = \frac{1}{\pi} \left[ \frac{0}{2} - \frac{1}{2} + 0 \right] = -\frac{1}{2\pi}$$

Using calculus, the area of  $R$  is  $\frac{1}{2} \int_0^{2\pi} 2\cos(x) dx = \frac{1}{2} [\sin(x)]_0^{2\pi} = 0$

(b) The instantaneous velocity of  $f$  is given by  $f'(x) = -2\sin(x)$ . At  $x = \pi$ ,  $f'(\pi) = -2\sin(\pi) = 0$ . At  $x = 0$ ,  $f'(0) = -2\sin(0) = 0$ . At  $x = 2\pi$ ,  $f'(2\pi) = -2\sin(2\pi) = 0$ .

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

$$\text{When } v > 0, \text{ then } -2\sin(x) > 0 \Rightarrow \sin(x) < 0$$

$$\text{When } v < 0, \text{ then } -2\sin(x) < 0 \Rightarrow \sin(x) > 0$$

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

# Flvs Algebra Module 6 Dbq Answers

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