

Problem 5 (2014)

Let  $f$  be a function on  $[0, 2\pi]$  such that  $f'(x) = 2 \cos(x) - \cos(3x)$ .  
(a) Let  $f(0) = 0$ . Find  $f(\pi)$ .  
(b) Find  $f$ .

1. Proceed on the Mean Value Theorem (MVT) Integrate  
eq. above

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

then  $\frac{1}{b-a} \int_a^b v(t) dt = \frac{b-a}{b-a}$

→ Average velocity =  $\frac{1}{b-a} \int_a^b v(t) dt$

=  $\frac{1}{\pi-0} \int_0^\pi (2 \cos t - \cos 3t) dt$

=  $\frac{1}{\pi} \left[ \frac{2 \sin t}{2} - \frac{\sin 3t}{3} \right]_0^\pi$

=  $\frac{1}{\pi} \left[ \frac{2 \sin \pi}{2} - \frac{\sin(3\pi)}{3} + \left( \frac{2 \sin 0}{2} - \frac{\sin 0}{3} \right) \right] = \frac{2 \sin \pi}{\pi} - \frac{\sin 3\pi}{3\pi} = \frac{0}{\pi} - \frac{0}{3\pi} = 0 \text{ m/s}$

Using velocity  
at  $t=0$  and  
at  $t=\pi$  to find  
the  
Average

(a) The instantaneous velocity of  $f$  is zero at  $x = \pi$ .  
 $v(x) = 2 \cos(x) - \cos(3x) = 2 \cos(\pi) - \cos(3\pi) = 2(-1) - (-1) = -1$  m/s

(b) Since the particle is moving right, its velocity will  
be positive. When moving left, it will

be negative.  $v(x) = 2 \cos(x) - \cos(3x)$   
 $v(x) = 2 \cos(x) - \cos(3x) = 0$

→  $\begin{cases} x = 0 \\ x = \pi/2 \\ x = \pi \\ x = 3\pi/2 \end{cases}$  →  $\begin{cases} x = \pi/2 \\ x = 3\pi/2 \end{cases}$  →  $\begin{cases} x < \pi/2 \\ x > 3\pi/2 \end{cases}$

So on intervals  $[\pi/2, \pi]$  and  $[3\pi/2, 2\pi]$ , the particle  
is moving right

# Flvs Algebra Module 6 Dbq

**Engage NY**

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Grade 6 Mathematics Module 1 Engage NY,2014-06-04 Common Core Math Grade 6 Module 1

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