Quiz #32

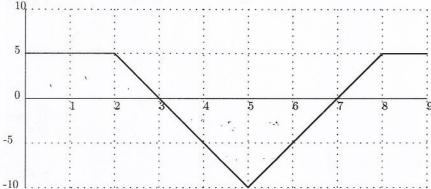
Name: Key

You must show your work to get full credit.

(1) If the speed of a bike is $v(t) = 10 - 3(.75)^t$ ft/sec where t is time in seconds, then what is the average speed between t = 0 and t = 5?

Average speed 8.4092. $\frac{1}{5-0}$ \(\frac{5}{(10} - \frac{3(.75)^4}\) Average speed \(\frac{8.4092}{5.4092} \). $\frac{1}{5}$

(2) Let f(x) have the graph in the figure.



(a) What is the average value of f between x = 0 and x = 2.

= = (2boxes) == = (2.5) = 5

(b) What is the average value of f between x = 2 and x = 6.

$$\frac{1}{6-2} \int_{2}^{6} \delta(x) dy = \frac{1}{4} \left(-3 \text{ boxes}\right)$$
$$= \frac{1}{4} \left(-15\right) =$$

Average =
$$3.75$$

(c) What is the average value of f between x = 0 and x = 6.

Average =
$$\frac{-.83333}{}$$

$$= \frac{1}{6} (2.5 - 3.5) hoxes= \frac{1}{6} (-1) hox = \frac{1}{6} (-5) =$$