Clicker Questions

Clicker Question 1

A. $21/2$

B. $9/2$

C. 21

D. 15

E. 6
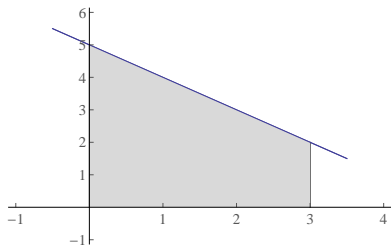
Clicker Question 2

Using the graph of $y = x^2$ between $x = 0$ and $x = 3$, estimate

$$\int_0^3 x^2 \, dx.$$

A. about 7

B. about 9

C. about 11

D. about 13

E. about 15
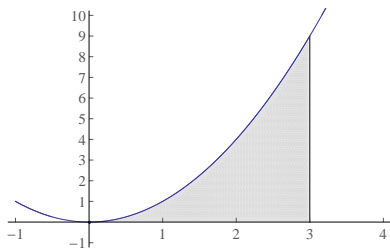
Clicker Question 3

Using properties of integrals

Using our previous evaluations, calculate $\int_0^3 \left[2(5-x) - x^2 \right] dx$.

A. 5

B. 10

C. 15

D. 20

E. none of the above: the answer is $2 \cdot \frac{21}{2} - 9 = 12$

Clicker Question 4

What do you think the definition gives us for the definite integral

$$\int_0^3 (x-5)\,dx = \lim_{n\to\infty} \sum_{i=1}^n (x_i^* - 5)\Delta x?$$

A. not defined

B. $21/2$

C. 0

D. $-21/2$