

1. True or False?

$$\int_2^{10} \frac{dx}{x} = \ln(5).$$

2. True or False?

$$\int_0^{\pi} \sin(2x) dx = 0.$$

The graph of a function f is depicted to the right, and

$$A(x) = \int_0^x f(t) dt.$$

3. For which x does

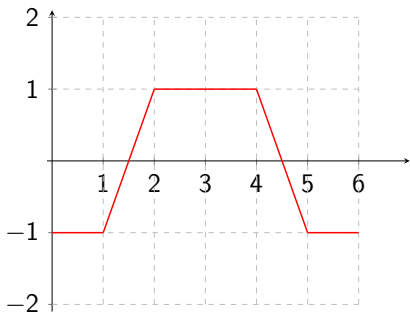
$$A(x) = 0?$$

(A) $x = 1$

(B) $x = 2$

(C) $x = 3$

(D) None of the above

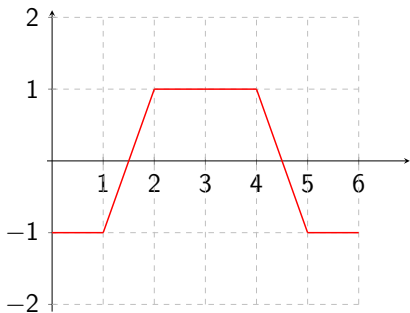


The graph of a function f is depicted to the right, and

$$A(x) = \int_0^x f(t) dt.$$

4. Where does A have a critical point?

- (A) $x = 1$
- (B) $x = 2$
- (C) $x = 3$
- (D) None of the above



5. True or False?

Let f be a differentiable function and

$$A(x) = \int_0^x f(t) dt.$$

If $x = c$ is an inflection point of A , then $x = c$ is a critical point of f .