

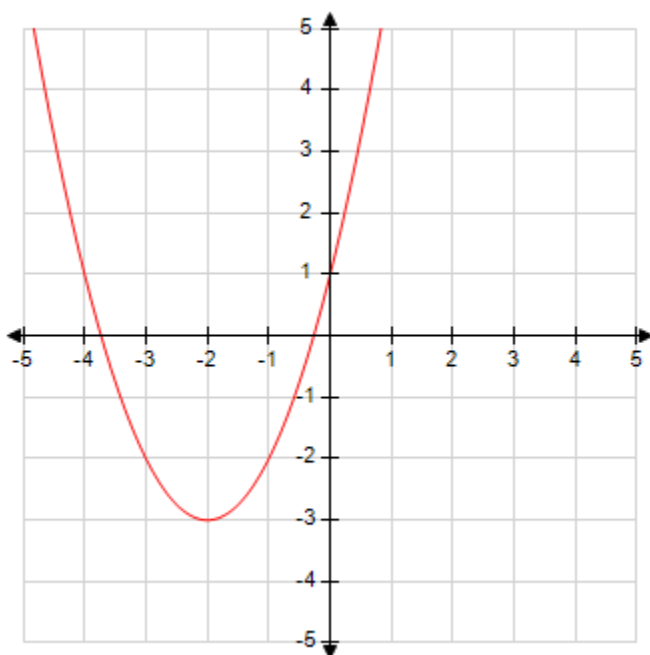
AP Review Questions Unit 01

1. Which relation represents a function?

- a. $(-3, 4), (-2, 0), (1, 7), (-3, -1)$
- b. $(-8, -3), (-7, -3), (-7, 1), (4, 6)$
- c. $(-1, 7), (9, 4), (-1, 13), (2, 12)$
- d. $(-5, 2), (-1, 2), (0, 2), (6, 2)$

ANSWER: d

2. What is the function rule for the graph shown?



- a. $y = (x + 2)^2 - 3$
- b. $y = (x - 2)^2 - 3$
- c. $y = (x + 2)^2 + 3$
- d. $y = (x - 2)^2 + 3$

ANSWER: a

3. Suppose function f is increasing over the interval $(-\infty, -5]$. Which statement is true?

- a. $f(-10) > f(-5)$
- b. $f(-18) < f(-7)$
- c. $f(-12) > f(-6)$
- d. $f(-9) < f(-20)$

ANSWER: b

4. Suppose function f is decreasing over the interval $\{x \mid x > -3\}$. Which statement is true?

- a. $f(1) > f(-1)$
- b. $f(-1) < f(2)$

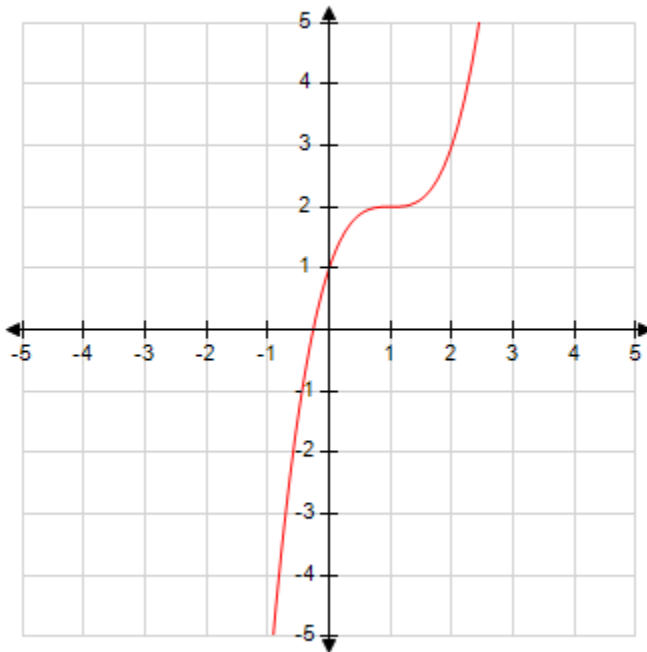
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c. $f(-2) > f(0)$

d. $f(0) < f(5)$

ANSWER: c

5. Which statement is true about how the function's input and output values vary?



a. As the input values increase, the output values increase, except when $x = 1$.

b. As the input values increase, the output values increase.

c. As the input values increase, the output values decrease.

d. As the input values increase, the output values remain the same.

ANSWER: a