Average Rate of Change of a Quadratic

Name	Period:	Date:

Directions: Use the information given to solve each problem.

- 1. What is the average rate of change for the function $f(x)=2x^2-4$ on the interval $-2\leq x\leq 1$?
 - A. 4
 - B. 6
 - C. -2
 - D. 2
- 2. What is the average rate of change for the function $f(x)=-x^2+6$ on the interval $0\leq x\leq 2$?
 - A. -4
 - B. -2
 - C. -6
 - D. -1
- 3. What is the average rate of change for the function $f(x)=rac{1}{2}x^2-3$ on the interval $1\leq x\leq 3$?
 - A. 1
 - B. 3
 - C. 2
 - D. 4
- 4. What is the average rate of change for the function $f(x)=4x^2+1$ on the interval $-1\leq x\leq 2$?
 - A. 16
 - B. 12
 - C. 8
 - D. 10

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Answer Key

Directions: Use the information given to solve each problem.

- 1. What is the average rate of change for the function $f(x)=2x^2-4$ on the interval $-2\leq x\leq 1$?
 - A. 4
 - B. 6

С

- C. -2
- D. 2
- 2. What is the average rate of change for the function $f(x)=-x^2+6$ on the interval $0\leq x\leq 2$?
 - A. -4
 - B. -2

В

- C. -6
- D. -1
- 3. What is the average rate of change for the function $f(x)=rac{1}{2}x^2-3$ on the interval $1\leq x\leq 3$?
 - A. 1
 - B. 3

С

- C. 2
- D. 4
- 4. What is the average rate of change for the function $f(x)=4x^2+1$ on the interval $-1\leq x\leq 2$?
 - A. 16
 - B. 12

С

- C. 8
- D. 10