

LT 2B - ARC and IRC practice

Date _____ Period _____

For each problem, find the average rate of change of the function over the given interval.

1) $y = -x^2 + x - 1$; $[0, 3]$

2) $y = 2x^2 - 2$; $[-1, 2]$

3) $y = x^2 + x - 1$; $[-2, -1]$

4) $y = 2x^2 + 1$; $[-1, 0]$

5) $y = -x^2 - 2$; $[1, 2]$

6) $y = 2x^2 + x - 1$; $[-1, 0]$

For each problem, find the instantaneous rate of change of the function at the given value.

7) $y = 2x^2 + x - 2$; 0

8) $y = -2x^2 + 1$; 0

9) $y = -x^2 + 2$; 1

10) $y = -2x^2 - x + 1$; -1

11) $y = -2x^2 - 1$; -1

12) $y = -2x^2 + 2$; -1

Answers to LT 2B - ARC and IRC practice (ID: 1)

1) -2

5) -3

9) -2

2) 2

6) -1

10) 3

3) -2

7) 1

11) 4

4) -2

8) 0

12) 4