

Average Rate of Change

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Name _____

Date _____

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

1) $f(x) = -x^2 + 2$; $[-2, 1]$

2) $f(x) = -x^2 - x + 2$; $[-1, 1]$

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

4) $f(x) = x^2 - 1$; $[0, 1]$

5) $f(x) = -x^2 + x + 1$; $[1, 2]$

6) $f(x) = 2x^2 + 2$; $[0, 1]$

7) $f(x) = 2x^2 - x + 2$; $[-1, 0]$

8) $f(x) = x^2 + 1$; $[-2, -1]$

9) $f(x) = x^2 + x + 2; [-2, -1]$

10) $f(x) = x^2 + x - 2; [-3, -2]$

11) $f(x) = 2x^2 - 1; [-1, 0]$

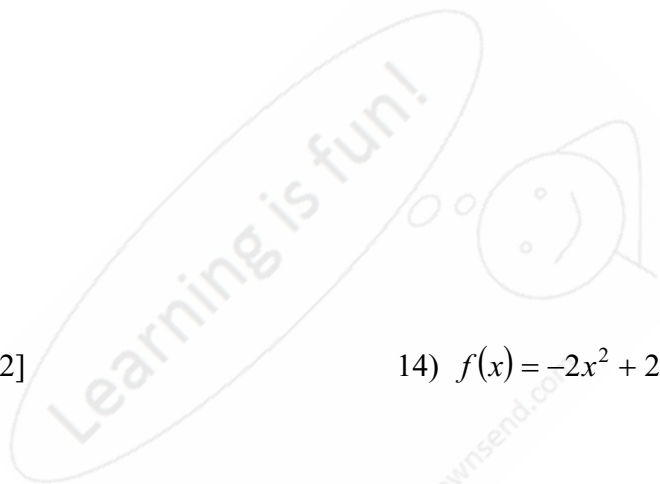
12) $f(x) = 2x^2 + 1; [0, 1]$

13) $f(x) = x^2 - 1; [1, 2]$

14) $f(x) = -2x^2 + 2; [-1, 0]$

15) $f(x) = x^2 - 2; [-1, 1]$

16) $f(x) = x^2 + 2; [-2, 0]$



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Answers to Average Rate of Change

1) 1
5) -2
9) -2
13) 3

2) -1
6) 2
10) -4
14) 2

3) -1
7) -3
11) -2
15) 0

4) 1
8) -3
12) 2
16) -2

