

ALGEBRA 2 HONORS

Name _____

1.5 – AVERAGE RATE OF CHANGE

Write the equation of the secant line on the given interval on the given curve.

1. $f(x) = \frac{1}{x-1}$; $x \in [-2, -1]$

2. $f(x) = x^2 - 2x + 2$; $x \in [0, 3]$

3. $f(x) = \frac{1}{x+3}$; $x \in [-2, 1]$

4. $f(x) = 2x^2 + 2$; $x \in \left[-1, -\frac{2}{3}\right]$

Find the average rate of change of the given function over the given interval.

5. $f(x) = \frac{-1}{x-2}$; $x \in [-4, -1]$

6. $f(x) = -x^2 - 2x + 1$; $x \in [-4, -2]$

7. $f(x) = x^2 - 2x + 1$; $x \in \left[-1, -\frac{1}{2}\right]$

8. $f(x) = \frac{1}{x+2}$; $x \in [0, 2]$