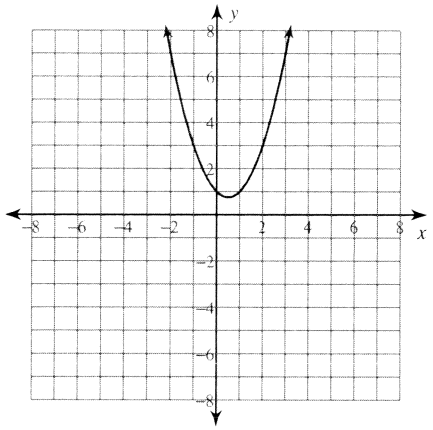
Kuta Software - Infinite Calculus Name_____

Average Rates of Change

Date_____ Period____

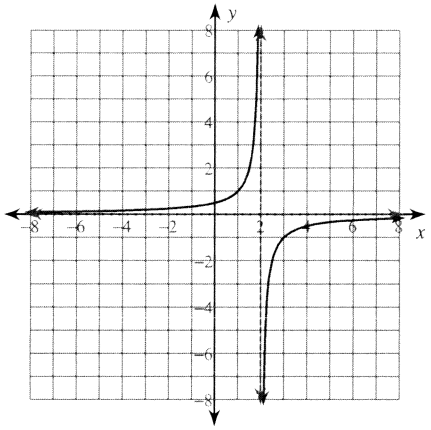
For each problem, find the average rate of change of the function over the given interval.

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



2

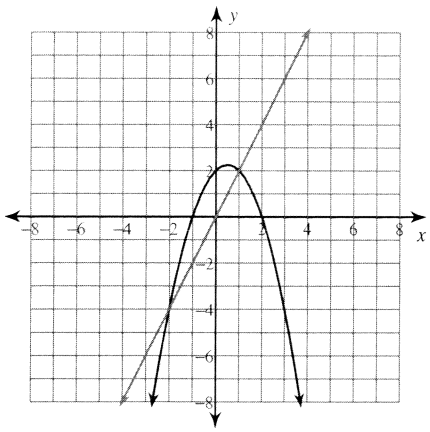
2) $y = -\frac{1}{x-2}$; $[-3, -2]$



$\frac{1}{20}$

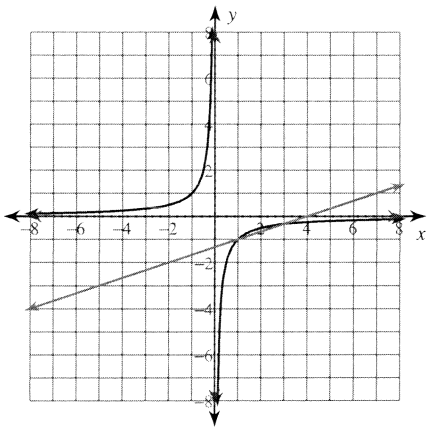
For each problem, find the equation of the secant line that intersects the given points on the function.

3) $y = -x^2 + x + 2$; $(-2, -4), (1, 2)$



$y = 2x$

4) $y = -\frac{1}{x}$; $(1, -1), \left(3, -\frac{1}{3}\right)$



$y = \frac{1}{3}x - \frac{4}{3}$