

Find the average rate of change

1.  $f(x) = \frac{1}{x-2}$       *between*  $[1, 4]$

Find the instantaneous rate of change (**slope**) of the tangent line for the function below at the given value of  $x$ .

2.  $f(x) = \frac{1}{x-2}$       *at*  $x = 3$