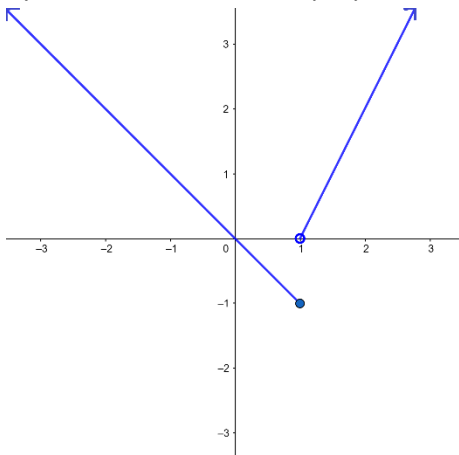


Name: _____

SM2 4.1: Properties of Functions

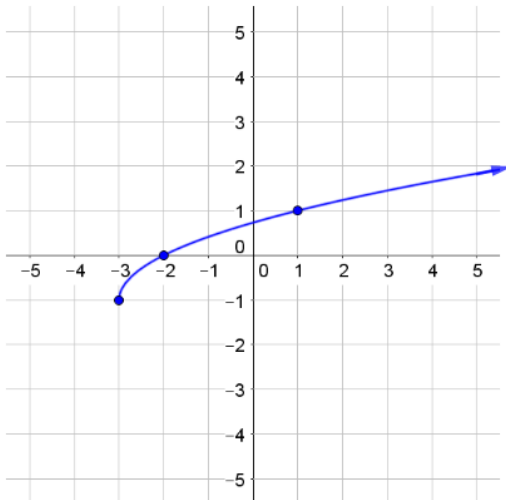
Identify the indicated function properties.

1)



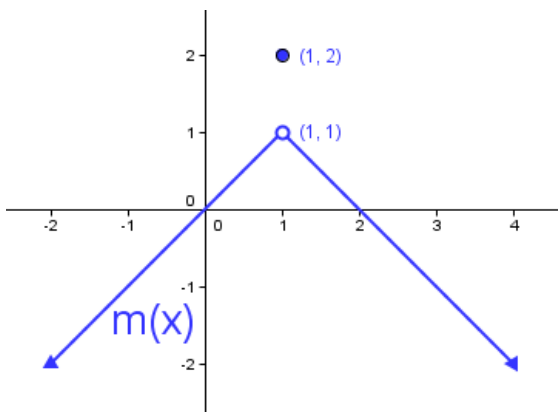
Domain: _____
Range: _____
Relative Maxima: _____
Relative Minima: _____
 x -intercept(s): _____

2)



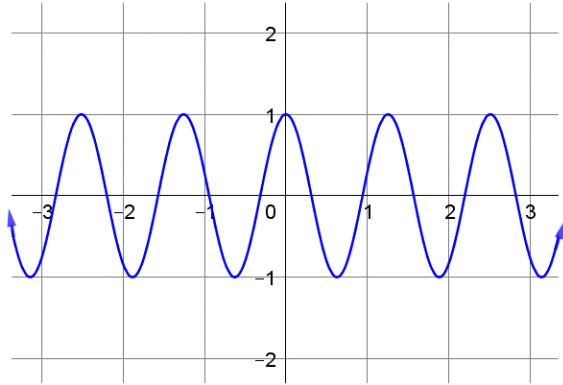
Domain: _____
Range: _____
Increasing: _____
Decreasing: _____
Roots: _____
Positive: _____
Negative: _____

3)



Domain: _____
Range: _____
Increasing: _____
Decreasing: _____
Roots: _____
 y -intercept: _____

4)



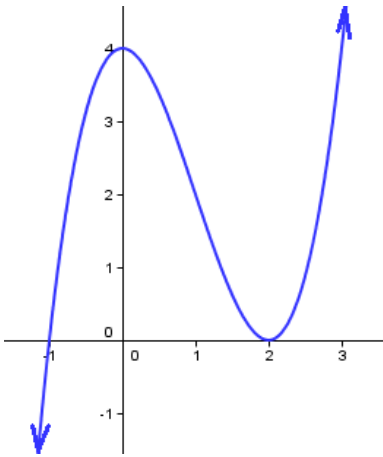
Domain: _____
 Range: _____
 y-intercept: _____

What is y-value of the maxima?

What is the y-value of the minima?

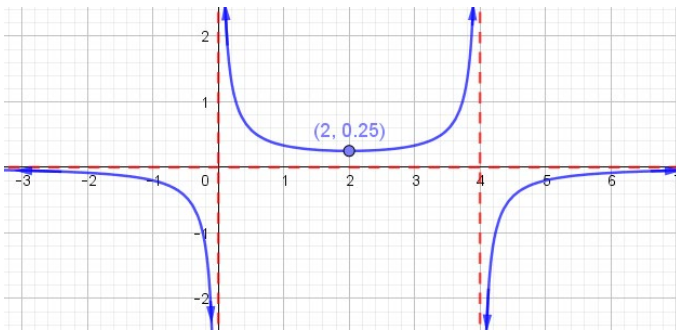
*assume the pattern continues

5)



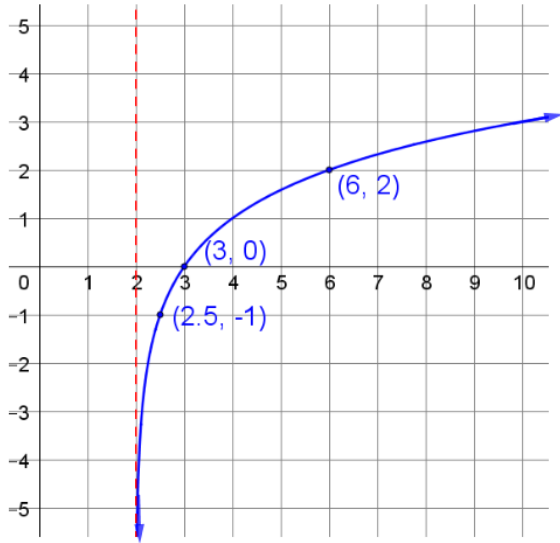
Domain: _____
 Range: _____
 Relative Maxima: _____
 Relative Minima: _____
 Increasing: _____
 Decreasing: _____

6)



Domain: _____
 Range: _____
 Increasing: _____
 Decreasing: _____
 x-intercept(s): _____
 y-intercept: _____

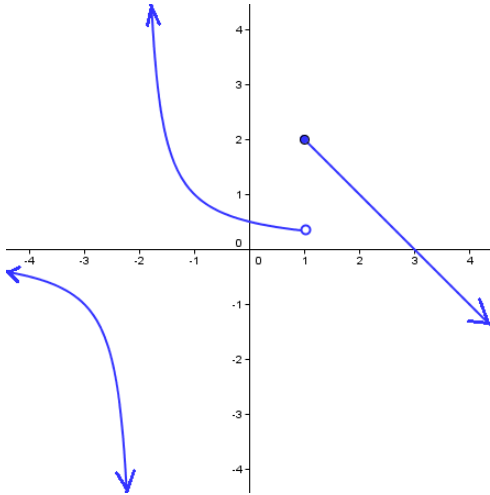
7)



Domain: _____
 Range: _____
 Roots: _____
 Positive: _____
 Negative: _____
 y-intercept: _____

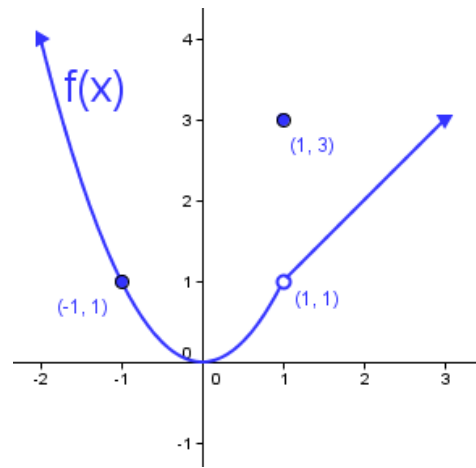
Find the average rate of change over the specified interval.

8)



$[-3, 1]$

9)



$[-1, 1]$