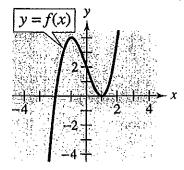
MAT 161 - CLASS NOTES - Sections 2.1b & 2.2b: Functions and Their Graphs

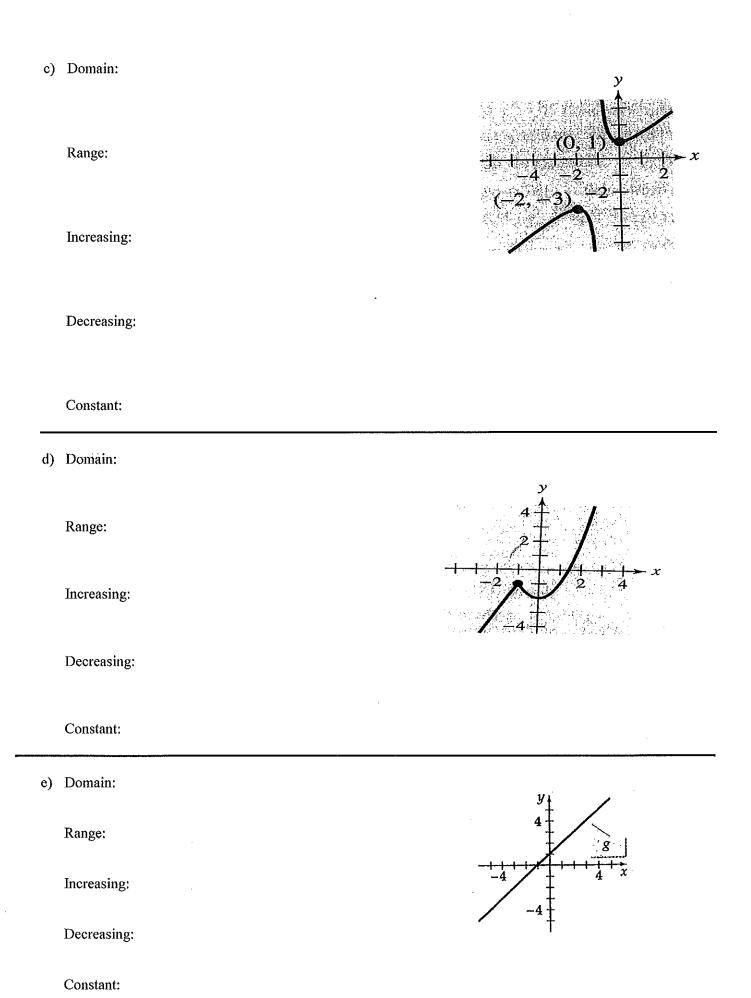
1) Use the graph of the function to find the indicated function values.

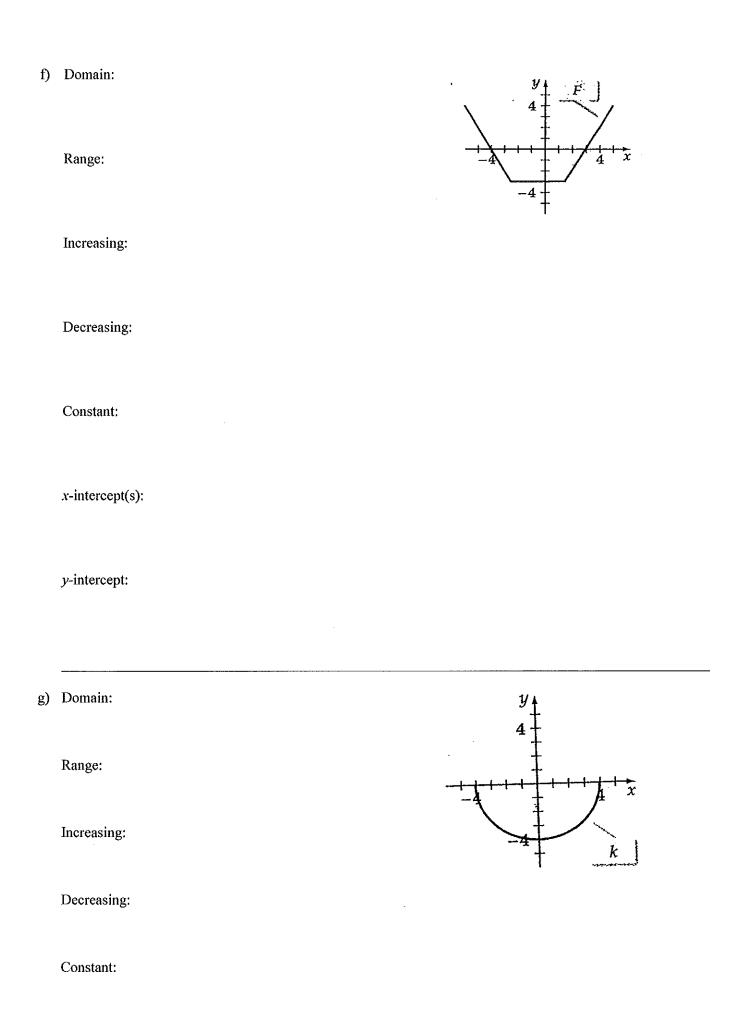


- a) f(-1)
- b) f(2)
- c) f(0)
- d) f(1)
- e) What value(s) of x is f(x)=1?
- f) Find the x-intercepts.
- g) Find the y-intercept.
- h) Values of x for which $f(x) \ge 0$
- i) Values of x for which f(x) < 0

2)		Domain – set of all x -coordinates – interval of x -values that have a y -coordinate – left to right – negative to positive.		
3)	Ra	Range – set of all y-coordinates – interval of y-values that are on the graph – bottom to top – negative to positive.		
4)	Int	Intervals over which f is increasing, decreasing, or constant –		
		interval of x over which the y values are increasing, decreasing, or constant. Remember to read the graph from left to right.		
5)		Use the graph of the function to find the domain and range of f and determine the intervals over which the function is increasing, decreasing, or constant.		
	a)) Domain:		
		Range;		
		Increasing:	 	
		Decreasing:	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
		Constant:		
		the number at which has a relative minimum:		
		the relative minimum:		
	b)) Domain:	y	
		Range:		
		Increasing:	$ \begin{array}{c c} 1,0) & \xrightarrow{1} & (1,0) \\ & \xrightarrow{1} & \xrightarrow{2} & 4 \end{array} $	
		Decreasing:	ः अल्लास्थर रूप्याचित्रास्य (

Constant:

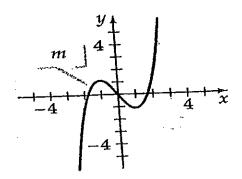






Range:

Increasing:



Decreasing:

Constant:

f(1)

f(-1)

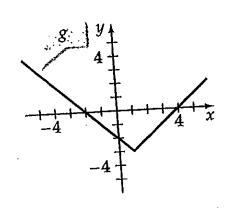
What value(s) of x is m(x)=1?

Domain: i)

Range:

Increasing:

Decreasing:



Constant:

