

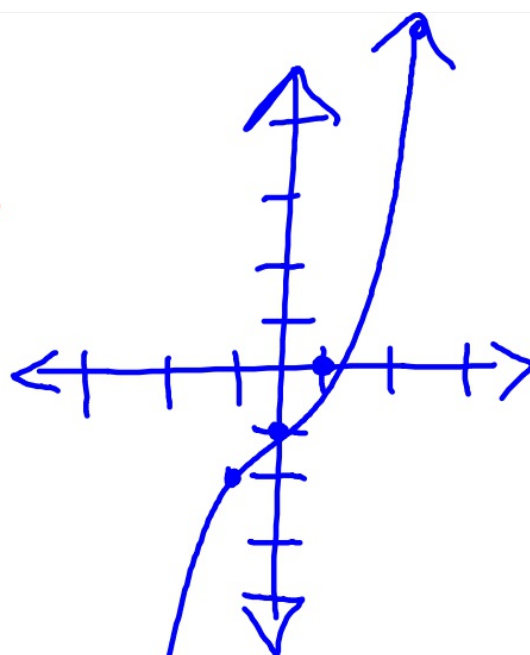
EX #3: Graph $y = x^3 - 1$

positive $\Rightarrow$

Degree 3 $\Rightarrow$ ODD

Turns $\Rightarrow$ 2

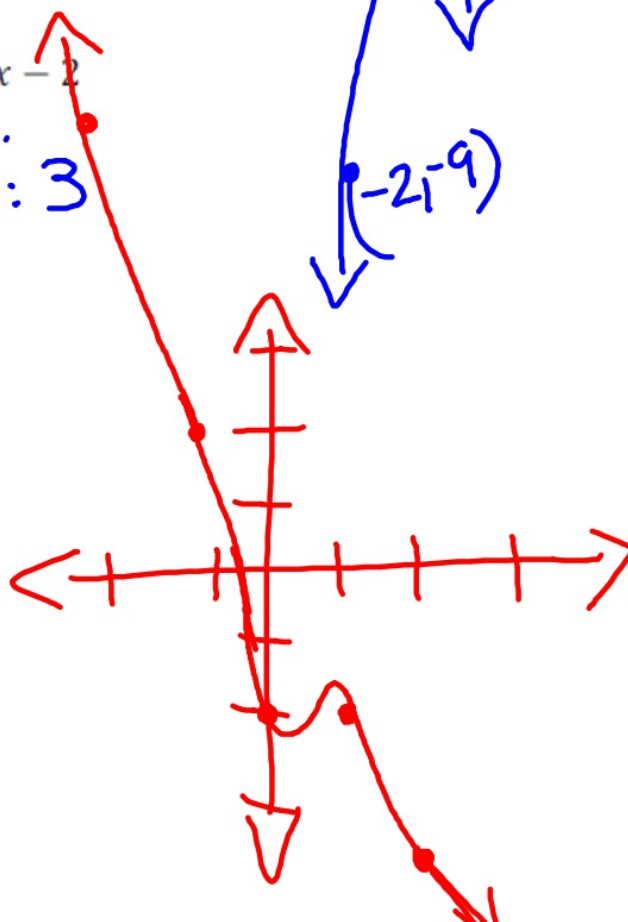
x	$f(x)$
-2	-9
-1	-2
0	-1
1	0
2	7



EX #4: Graph $y = -x^3 + 2x^2 - x - 2$

Neg.
Deg: 3

x	$f(x)$
-2	16
-1	2
0	-2
1	-2
2	-4

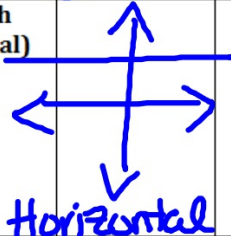


EX #5: Use the table below to determine the degree of the polynomial.

x	y
-3	23
-2	-16
-1	-15
0	-10
1	-13
2	-12
3	29

1 st Diff	2 nd diff	3 rd diff	4 th diff
39	40	-36	24
1	4	-12	24
5	-8	12	24
-3	4	36	24
1			
41	40		

Polynomial of degree 4.

Degree	0	1	2	3	4	5
Lead term	$x^0 = 1$	ax	ax^2	ax^3	ax^4	ax^5
Name	Constant	linear				
Graph (general)						
# of possible x-intercepts	0 or ∞					
End behavior	N/A					
# Turning points	0					