## Task 4

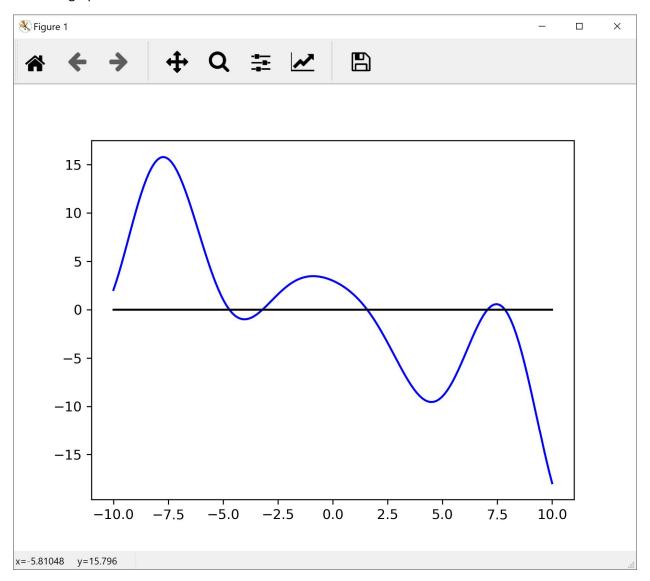
```
-1 :algorithm terminated normally (due to error being sufficiently small)
-1 :algorithm terminated normally (due to error being sufficiently small)
[-4.712890625, -3.208984375, 1.5703125]
-1 :algorithm terminated normally (due to error being sufficiently small)
-1 :algorithm terminated normally (due to error being sufficiently small)
-1 :algorithm terminated normally (due to error being sufficiently small)

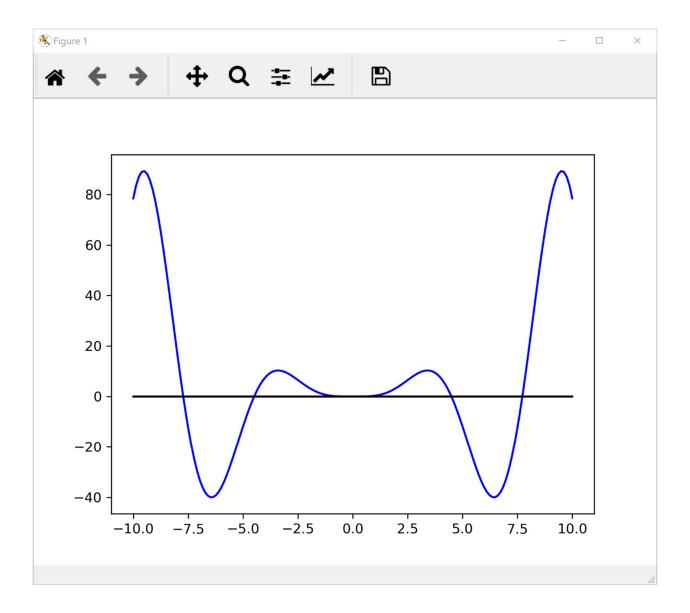
Task 4

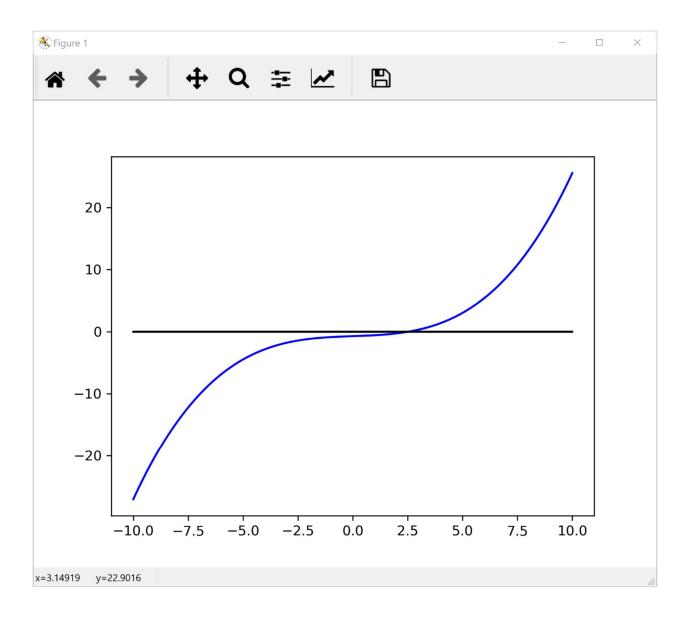
Usign Bisect metion with bound for Y1 in incremetn of 1, Y2 in incremetns of 2 and Y3 in increments of 11. from -6-6
Y1 [-4.712890625, -3.208984375, 1.5703125]
Y2 [-4.493408203125, 4.493408203125]
Y3 [2.53466796875]

(base) C:\Users\ripti\Documents\GitHub\MEEN 357\Home Work>
Python 3.7.4 64-bit (base:conda) ② 0 \( \triangle \
```

I used bisection method for all code and iterated though an interval for ach after selecting an interval form the graph. See code for detail and values above ^







Task 5

Task	5	$f(x) = X \sin(x) + 3 \cos(x) - X$ $S(x) = X \cos(x) + 1 \sin(x) + 3 \sin(x) - 1$			
	0	Xi	1 f(xi)	8(xi)	Esteur (xi+1-xi)+xi- 5(xi)
	1	0	3	-	
	2	3	-5.54	-4,252	1,701475
	3	1,696	-0.387	-3,1955	0.014637
	4	1,5746	=0101145	_3,006	1.45 e-5
Q	5	11570 Sums in	ille 5	-3,000	1,44 e-11
assoms in Rodials					
$\chi_{i+1} = \chi_i - \frac{f(\alpha)}{f'(\alpha)}$					
					(0-3)
$\frac{1}{1-554} = 3$ $\frac{1}{1-554} = 3$ $\frac{1}{1-554} = 3$					
2)	2) 3-(-5.54) = 1,696				(1,874 -1,696)
3) 1.696 - (-3,1955) = (157)					
4) $1.5746 - \left(\frac{-6.01125}{-3.000}\right) = 1.57$ $(1.57 - 1.57)^2$ 5) $1.57 - \left(\frac{-12-5}{-3.000}\right) = 1.57$ $(1.57 - 1.57)^2$					
alaing					
wa 1					