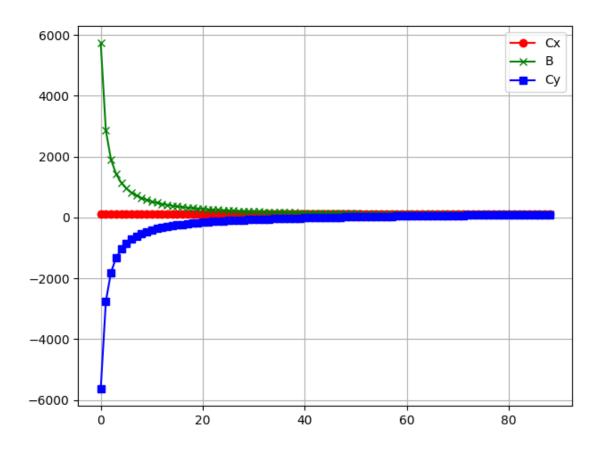
$sept_28_coding_prob$

October 5, 2023

```
[]: import numpy as np
 import matplotlib.pyplot as plt
 def rod_b(t):
    p = 100
     return p/np.sin(t * (np.pi/180))
 def rod_cy(t):
     p = 100
     return p*(1-(1/np.tan(t* (np.pi/180))))
 rod_cx = 100
 Cx = []
 B=[]
 Cy = []
 for i in range(1, 90):
  Cx.append(rod_cx)
  B.append(rod_b(i))
  Cy.append(rod_cy(i))
 plt.plot(Cx, label = "Cx", color = "r", marker = "o")
plt.plot(B, label = "B", color="g", marker = "x")
 plt.plot(Cy, label = "Cy", color = "b", marker = "s")
 #showing the legend
 plt.legend()
 #displaying the plot
 plt.grid(True)
 plt.tight_layout()
 plt.show()
```



[]: