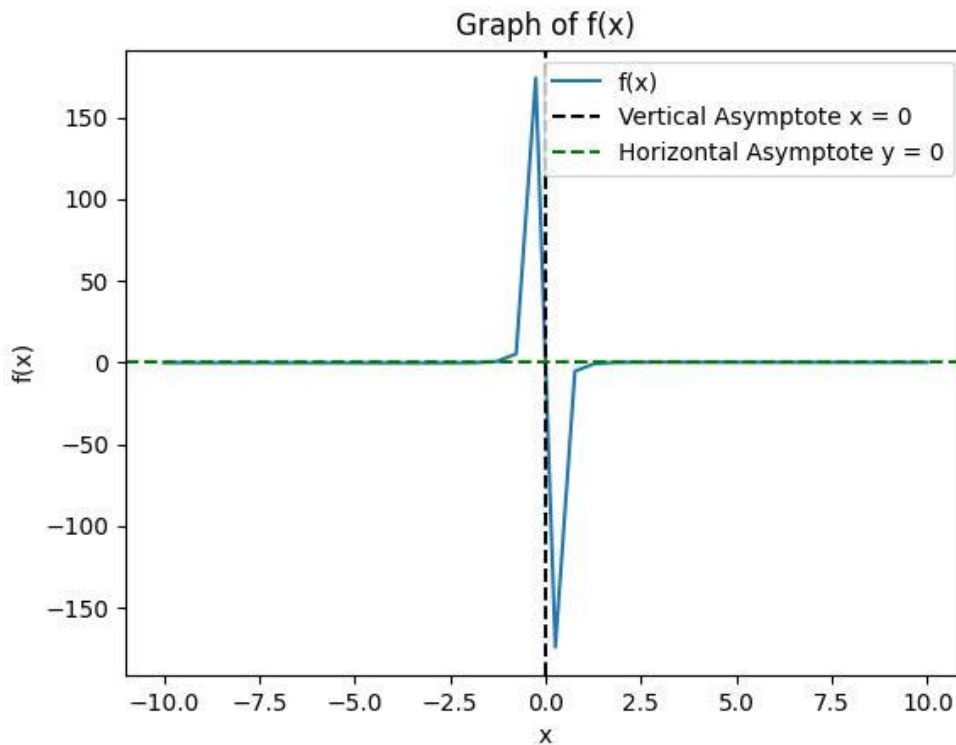


## Question no 5



**The command that was used to plot this graph is:**

- `import matplotlib.pyplot as plt`
- `import numpy as np`
- `# Generate x values`
- `x = np.linspace(-10, 10, 40)`
- `# Define the function`
- `y = []`
- `for i in x:`
- `fx = ((i*2)-3)/(i*3)`
- `y.append(fx)`
- `# Plot the function`
- `plt.plot(x, y, label='f(x)')`
- `# Label the vertical asymptote`

- `plt.axvline(x=0, color='k', linestyle='--', label='Vertical Asymptote x = 0')`
- `# Label the horizontal asymptote`
- `plt.axhline(y=0, color='g', linestyle='--', label='Horizontal Asymptote y = 0')`
- `# Add labels and title`
- `plt.xlabel('x')`
- `plt.ylabel('f(x)')`
- `plt.title('24i-2529 M.Faseeh Zafar')`
- `plt.legend()`
- `# Show the plot`
- `plt.show()`