1. BASICS

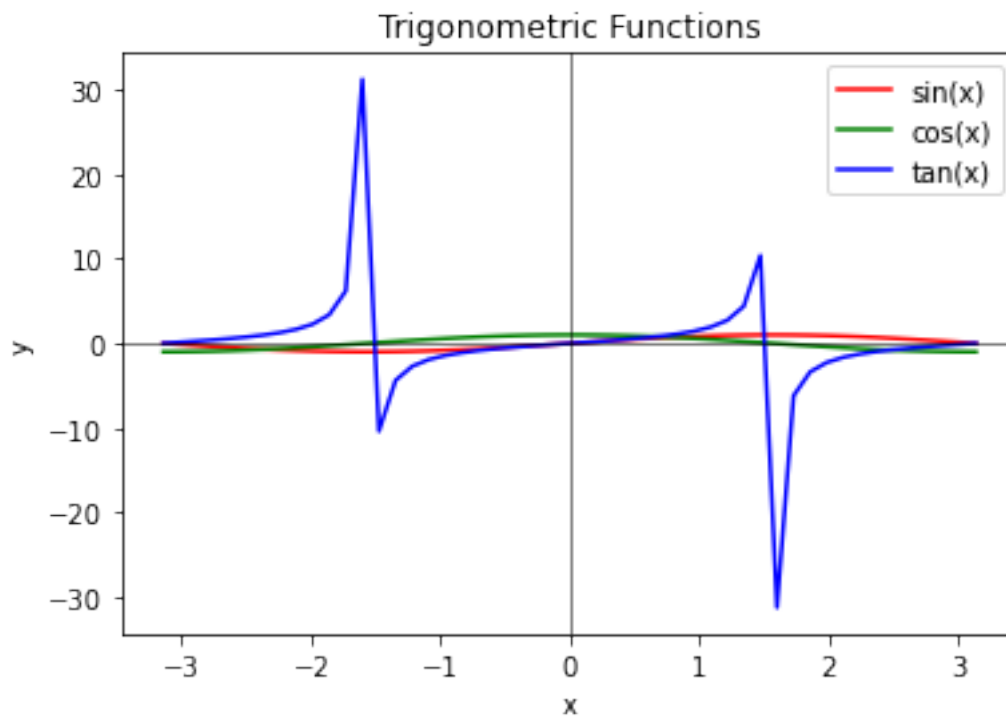## d) Multiple plots in a single graph

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1   AIM

This is another addition to plotting recap. Here, instead of producing multiple plots as separate graphs, we will produce these plots in a single graph. In this record, we will produce multiple trigonometric functions in a single graph, range and domain.

```
[29]: import matplotlib.pyplot as plt
      import numpy as np
      x = np.linspace(-np.pi, np.pi, 50)
      plt.plot(x, np.sin(x), color = "red", label = "sin(x)")
      plt.plot(x, np.cos(x), color = "green", label = "cos(x)")
      plt.plot(x, np.tan(x), color = "blue", label = "tan(x)")

      plt.title('Trigonometric Functions')
      plt.xlabel('x')
      plt.ylabel('y')

      plt.axhline(lw = 0.5, color = "black")
      plt.axvline(lw = 0.5, color = "black")
      plt.legend()
      None
```

2   CONCLUSION

Multiple plots in a single graph are an effective way to compare the plots more closely and in a corresponding manner.