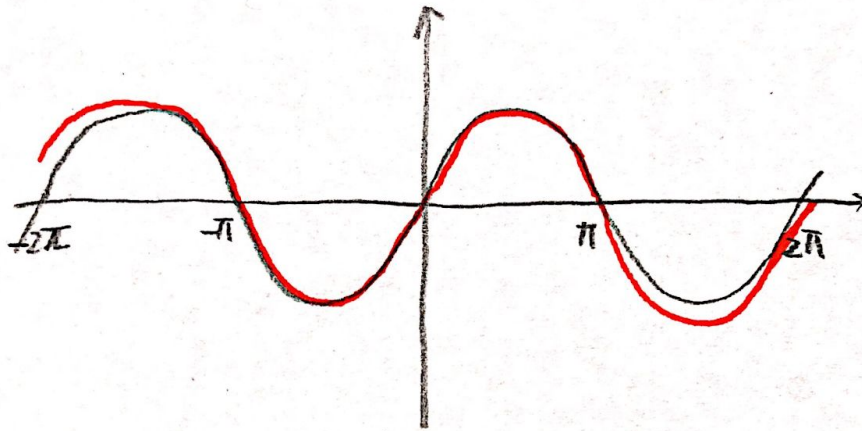


For sin, cos, and tan, before using the equations given in the homework document to calculate the values, I normalized the given data to $[-2\pi, 2\pi]$. And for the first result I noticed that the error range around $[-\pi, \pi]$ is smaller than $[-2\pi, 2\pi]$, like the graph for sin demonstrated below. So I then transferred the value from $[-2\pi, -\pi]$ to $[0, \pi]$, and $[-\pi, 0]$ to $[\pi, 2\pi]$.



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