For n=10



For n=20



For n=100



For n=500



For n=1000



As n increases, the graph begins to look more and more like a better approximation of a sinusoidal forcing function (something I have seen a lot in my classical mechanics class).

N=10 to n=100 show no real sinusoidal forcing function curve, but n=500 and n=1000 show the true forcing function.

Here is the code. All you need to do to change it is change the n values at the top of the code.

