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Clarification about 
$$Sin(k(1+\epsilon)\pi)$$
:

For even  $k$ ,  $sin(k(1+\epsilon)\pi) = sin(k(1+\epsilon)\pi - 2\pi \cdot \frac{k}{2})$ 
 $= sin(k\epsilon\pi)$ 

For odd  $k$ ,  $sin(k(1+\epsilon)\pi) = sin(k(1+\epsilon)\pi - 2\pi \frac{k-1}{2})$ 
 $= sin(k\epsilon\pi + \pi)$ 
 $= -sin(k\epsilon\pi)$ 

Therefore,  $|sin(k(1+\epsilon)\pi)| = |sin(k\epsilon\pi)|$  for all  $k=1,2,3,...$