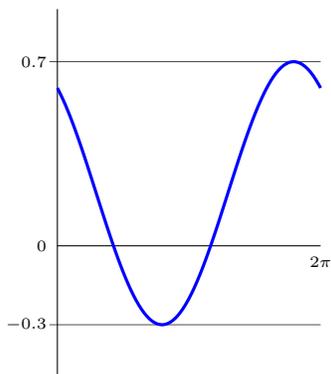This is an example of a plot created with GNU Octave and TikZ.
Plot of the function $g(x) = 0.2 + 0.4\cos(x) - 0.3\sin(x)$:

Another plot with marks $(Q(x) = 0.2 - 0.5\cos(\pi x))$: