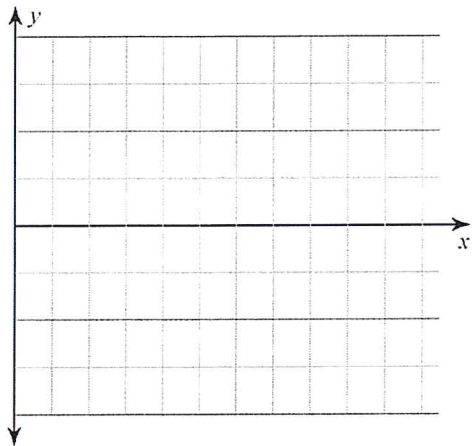


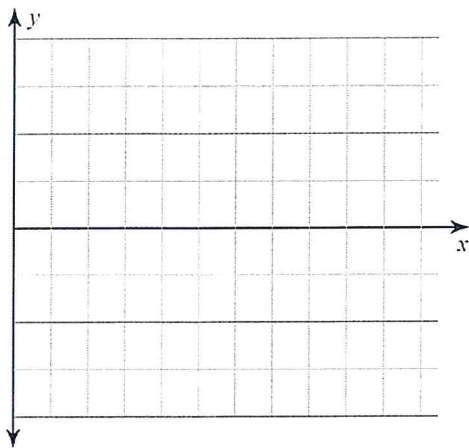
## IB Math SL Section 14.2 Curve Sketching with Trigonometric Functions

Sketch each of the following functions from  $[0, 2\pi]$  by finding and plotting the following:  $x$  &  $y$  intercepts, relative minima/maxima, increasing/decreasing intervals, inflection points, and concave up/down intervals.

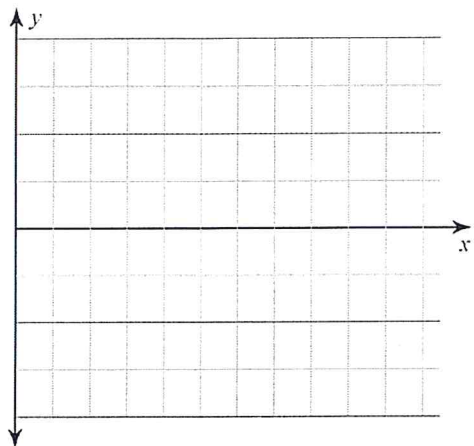
1)  $y = \sin x - \cos x$



2)  $y = 2\sin x + \sin^2 x$



3)  $y = \cos x - \cos^2 x$  (Omit inflection points and concavity on this one)



4)  $y = 2\sin x - \cos^2 x$  (Omit inflection points and concavity on this one)

