**5.** Sketch, on the same set of axes, the graphs of , , and for the domain . Describe how the graphs are related in terms of shape, period, zeros, maxima, minima and any other features.



* , , and are all periodic. The period for and is . The period for is.
* and have zeros at has zeros at .
* and have maximums at 1 and minimums at -1. has no maximums or minimums.
* is undefined and has vertical asymptotes at .