Review Quiz 2 – Chapter 11 (11.1 – 11.5)

To prepare for the quiz, make sure you know the examples done in class as well as the examples from the textbook and assigned homework exercises from the topics listed below.

Chapter 11

You should be able to:

- find a parametrization for a given function (similar to exercises assigned/done from #19-32/11.1)
- identify a particle's path by finding a Cartesian equation for it(similar to exercises assigned/done from #1 14/11.1)
- find distance using parametric equations (smiliar to exercises assigned/done from #39 40/11.1)
- find the tangent to a curve given by parametric equations (similar to exercises assigned/done from #1 20, 43, 44 /11.2)
- plot points given in polar coordinates and find all the polar coordinates of each point (similar to #3,4/11.3)
- find the Cartesian coordinates of a point knowing polar coordinates (similar to #6/11.3)
- find polar coordinates for a point knowing its Cartesian coordinates (similar to exercises assigned/done from #7 10/11.3)
- graph a polar curve (similar to exercises assigned/done from #11 26/11.3)
- replace polar equations with equivalent Cartesian equations and identify the graph (similar to exercises assigned/done from #27 52/11.3)
- replace the Cartesian equations with equivalent polar equations (similar to exercises assigned/done from #53 66/11.3)
- identify the symmetries of a polar curve then sketch its graph (cartioids ,four-leaved roses, lemniscates, and limacons similar do exercises assigned/done #1 16, 17 24/11.4)
- find the slopes of the curves at the given points (#17 20/11.4)
- find the area enclosed by a curve given in parametric equations (similar to exercises assigned/done from #1 6/11.5)
- find the area between two curves given in parametric equations (similar to exercises assigned/done from #9 19/11.5)
- find lengths of polar curves (similar to exercises assigned/done from #21 28)