## 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)

