

Name _____ Student number _____

Assignment 5

A circular plate of radius R , which is simply supported at the outer edge, is loaded by force F at the center point. Use the Kirchhoff plate model to find the transverse displacement at the center point. Use the approximation $w = a_0(x^2 + y^2 - R^2)$ for the transverse displacement. Material properties E , ν and thickness t are constants.

