Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student number\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Assignment 5**

A circular plate of radius , which is simply supported at the outer edge, is loaded by force at the center point. Use the Kirchhoff plate model to find the transverse displacement at the center point. Use the approximation  for the transverse displacement. Material properties *E*,  and thickness *t* are constants.

*F*

*R*

*x,X*

*y,Y*

*z, Z*