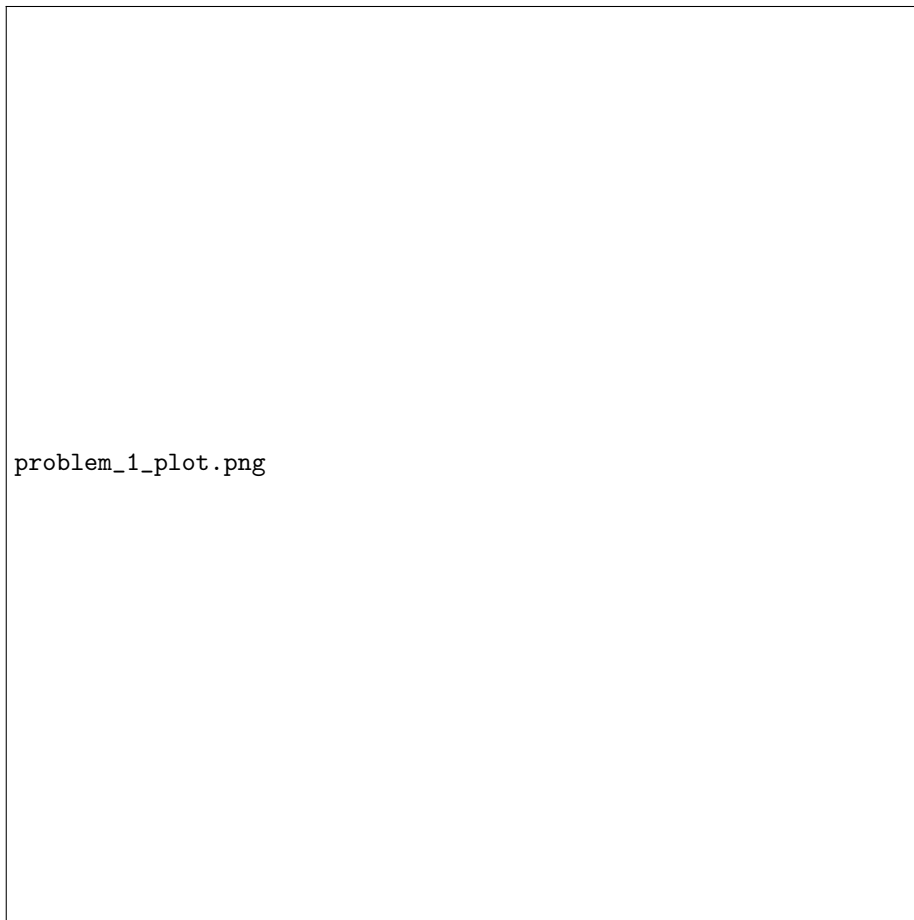


MATH 610 PA 2 Report

Problem 1

Solution

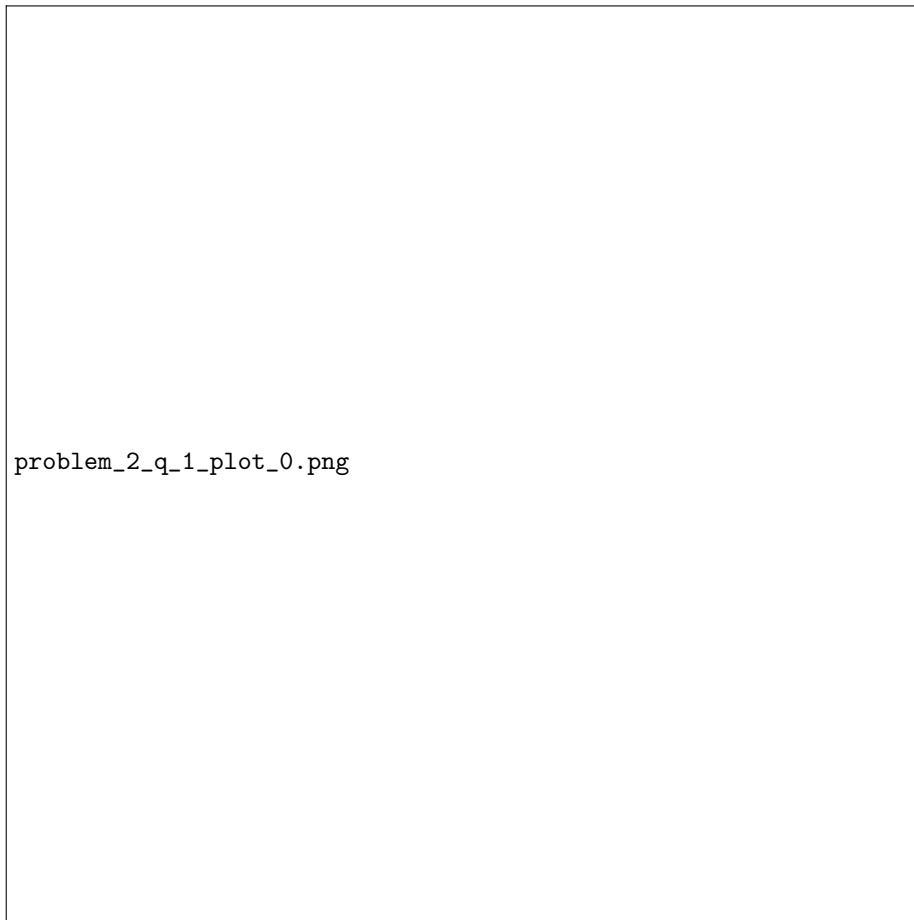


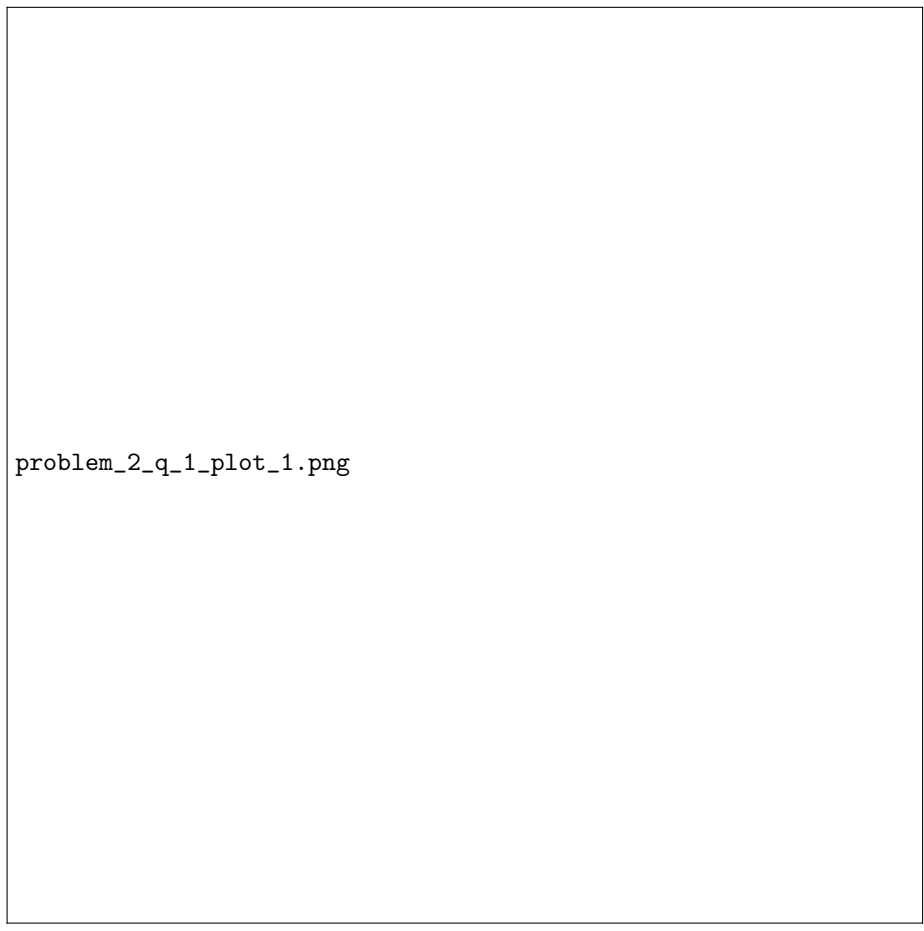
Errors

problem_1_errors.png

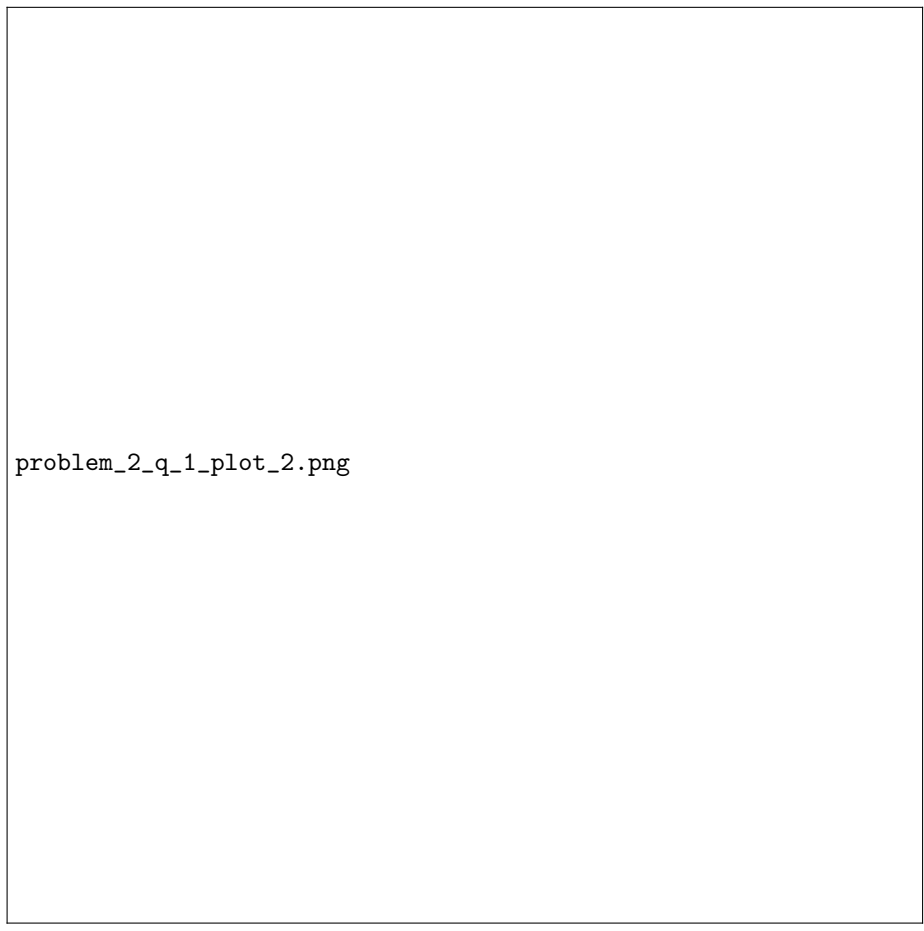
Problem 2

$$q = 1$$



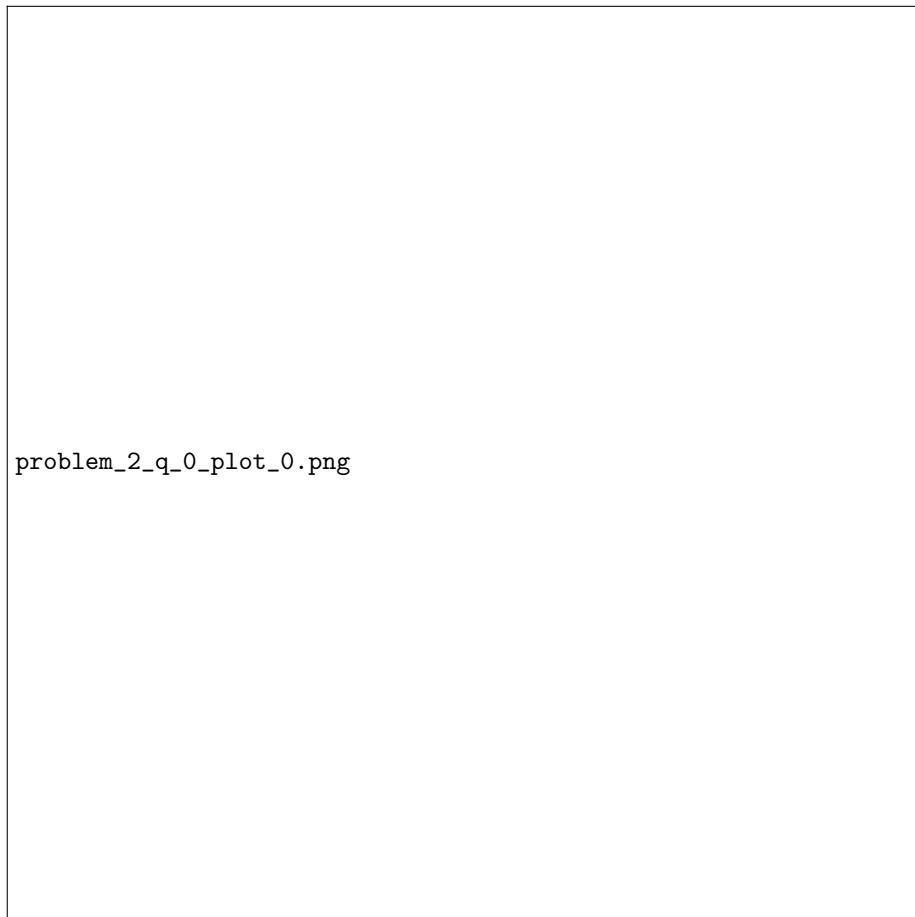


problem_2_q_1_plot_1.png



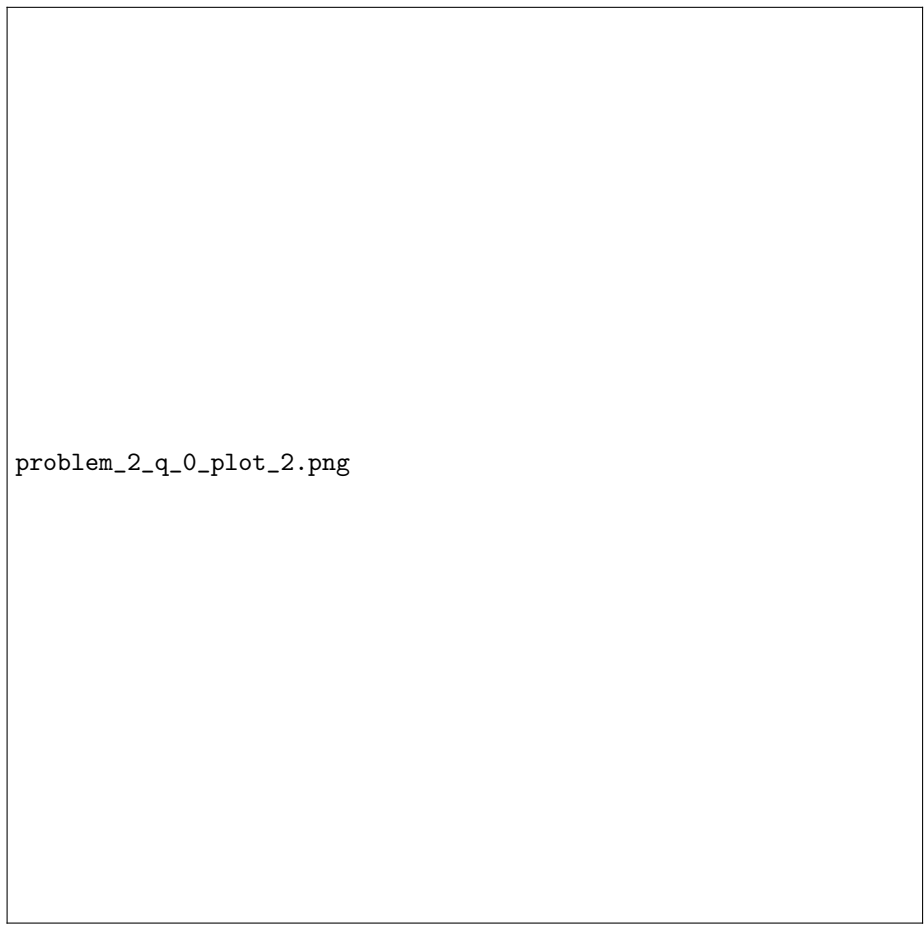
problem_2_q_1_plot_2.png

$$q = 0$$



problem_2_q_0_plot_0.png

problem_2_q_0_plot_1.png



problem_2_q_0_plot_2.png

Problem 3

Manufactured solution

$$u(x, y) = \cos(\pi x) \cos(3\pi y)$$

Solution

problem_3_manufactured.png

Errors

problem_3_manufactured_errors.png

Unknown solution

Solution

