

Assignment 3: Arc Length

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Arc length problems (which are usually quite difficult to solve by hand) can be solved with Maple. In this assignment you should find the arc length.

Let $f(x) = \sin(\pi \sin((x - 2)^2))$. Approximate the arc length of the graph of f from $(3, f(3))$ to $(5, f(5))$. Plot the graph of f .

Value of this assignment is 4 points (1 point is equal to 1 percent of your final mark).