Worksheet 1/16/2026

1) Prove that the equation $x^4 - 4x + 2 = 0$ has exactly two real solutions.

2) Write the recursive formula for the Newton-Raphson method.

3) Use the Newton-Raphson method with 2 iterations to find the smaller solution.

4) Use the Newton-Raphson method to find the larger solution, correct to 4 decimal places.