**Problem 1 (MATLAB Solution)**

1. **Working Code**

A screenshot of a computer

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1. **Execution of Program**

B.1. Run the program. The graph of the function is shownA screenshot of a computer

Description automatically generated

B.2 Larger view of the graph

A screenshot of a computer

Description automatically generated

The graph is repeating. From n = 0 to n = 9, the values of n satisfies the first equation in the function, which is n^2 - 7. But as the value of n reaches 10 and above, it will implement the second equation in the function wherein it subtracts 10 from n until the new value of n is less than or equal to 9. Then it will implement the first equation of the function and will be assigned as the y value of that specific value of n. Example when n equals 10, n is reduced by 10. Then the value becomes 0 and since it is less than or equal to 9, we input the value of 0 to the equation n^2-7, having a corresponding y-value, which is -7,f for n=10