

Exercise 3

1. What is the difference between variance and standard deviation?
2. Write a Python command to calculate the mean of a list [3, 5, 7, 9].
3. How do you visualize a normal distribution in Python?
4. Write a Python script to compute and visualize the shear force distribution along a simply supported beam.
5. Write a Python script using SciPy to solve the differential equation $dy/dt = -y + 10$.

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