**Q#1:** State the Linear and second-order Lagrange interpolating polynomials.

**Q#2:** Determine the linear Lagrange interpolating polynomial that passes through the points:

1. (0, 4) and (3, 1)
2. (0, 0) and (3, -3)
3. (4, 4) and (-2, 1)

**Q#3:** Determine the second-order Lagrange interpolating polynomial that passes through the points:

1. (0,0), (2, 4) and (3, 9)
2. (1, 2), (1,5) and (3, 8)