Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Theoretically, why are polynomials suitable functions for interpolation?
2. What do you think; are polynomials suitable for extrapolation?
3. Can you define the divided differences of order 0, 1 and 2?
4. Can you write down the Newton form of the interpolating polynomial?
5. Can you write down the Lagrange form of the interpolating polynomial?
6. Why are Chebyshev polynomials important in interpolation?