Lagrange’s Interpolation Formula

Apply Lagrange’s Interpolation Formula to find polynomial f(x) which passes through the points:

1. (0,2),(1,3),(2,12),(5,147) and estimate f(1.5),f(2),f(3),f(4),f(5)
2. (0,18),(1,10),(3,-18),(6,90) and hence estimate f(0),f(1),f(2),f(3)