1. Consider the table of function values below.

(a) Fill out the Newton divided difference table provided below for the above function values.

\underline{x}	$ f[\cdot] $	$ f[\cdot,\cdot] $	$ f[\cdot,\cdot,\cdot] $
1	f[1] =	f[1, 3/2] =	f[1,3/2,0] =
3/2	f[3/2] =	f[3/2,0] =	
0	f[0] =		

Scratch space:

(b) Write down, but do not simplify, the polynomial interpolant P in Newton form of f through points (1,3), (3/2,13/4), (0,3).

(c) Write down, but do not simplify, the polynomial interpolant P in Lagrange form of f through points (1,3), (3/2,13/4), (0,3).