

M353 3.1 Interpolation (S. Zhang) .

1. (3.1:a1) Find the $P_2(x)$ interpolation by
 - (1) solving equations for unknown coefficients,
 - (2) Lagrange nodal basis,
 - (3) Newton's divided differences.

x_i	-1	0	1
y_i	0	-2	0

2. (3.1:a2) Find the $P_3(x)$ interpolation by
 - (1) solving equations for unknown coefficients,
 - (2) Lagrange nodal basis,
 - (3) Newton's divided differences.

x_i	-1	0	1	2
y_i	0	-2	0	0