Group:A/B/C	No (in list)	Student ID	Full Name (Surname, Name)	HW
				05

We want to approximate a function f using natural cubic spline. The data point (x, y) is given by

x	-1.00	0.00	1.00	2.00
y	0.25	-1.25	-0.75	1.75

1. Write the natural cubic spline $S(x)$.

2. Approximate $f(1.5)$.

3. Plot the natural cubic spline $S(x)$.