1.

x	y
1.3	3.2
1.8	4.3
2.6	0.5
3.9	-1.7

$$L_0 = \frac{(x-x_1)(x-x_2)(x-x_3)}{(x_0-x_1)(x_0-x_2)(x_0-x_3)}$$
$$L_1 = \frac{(x-x_0)(x-x_2)(x-x_3)}{(x_1-x_0)(x_1-x_2)(x_1-x_3)}$$
$$L_2 = \frac{(x-x_0)(x-x_1)(x-x_3)}{(x_2-x_0)(x_2-x_1)(x_2-x_3)}$$
$$L_3 = \frac{(x-x_0)(x-x_1)(x-x_2)}{(x_3-x_0)(x_3-x_1)(x_3-x_2)}$$
$$P_3(x) = y_0L_0 + y_1L_1 + y_2L_2 + y_3L_3$$

$$L_0 = \frac{(x-1.8)(x-2.6)(x-3.9)}{(1.3-1.8)(1.3-2.6)(1.3-3.9)}$$
$$L_1 = \frac{(x-1.3)(x-2.6)(x-3.9)}{(1.8-1.3)(1.8-2.6)(1.8-3.9)}$$
$$L_2 = \frac{(x-1.3)(x-1.8)(x-3.9)}{(2.6-1.3)(2.6-1.8)(2.6-3.9)}$$
$$L_3 = \frac{(x-1.3)(x-1.8)(x-2.6)}{(3.9-1.3)(3.9-1.8)(3.9-2.6)}$$
$$P_3(x) = 3.2L_0 + 4.3L_1 + 0.5L_2 + (-1.7)L_3$$