$(0, 1013)$ $(2500, 747)$ $(500, 540)$ $(10000, 226)$

$X = 3750$

$$P(x) = \sum_{i=0}^{3} y_i \, L_i(x) \qquad L_i(x) = \prod_{\substack{j=0 \\ j \neq i}}^{3} \frac{x - x_j}{x_i - x_j}$$

$$L_0(3750) = \frac{(3750 - 2200)(3750 - 5000)(3750 - 10000)}{(0 - 2500)(0 - 5000)(0 - 1000)} = -0,078125$$

$$L_1(3750) = \frac{(3750 - 0)(3750 - 5000)(3750 - 10000)}{(2500 - 0)(2500 - 5000)(2500 - 10000)} = 0,625$$

$$L_2(3750) = \frac{(3750 - 0)(3750 - 5000)(3750 - 10000)}{(5000 - 0)(5000 - 2500)(5000 - 10000)} = 0,46875$$

$$L_3(3750) = \frac{(3750 - 0)(3750 - 2500)(3750 - 5000)}{(1000 - 0)(1000 - 2500)(1000 - 5000)} = -0,015625$$

$$P(3750) = 1013 \cdot (-0,078125) + 747 \cdot 0,625 + 540 \cdot 0,46875 + 226 \cdot (-0,015625)$$

$$P(3750) = -79,140625 + 466,875 + 253,125 - 3,53125$$

$$P(3750) = 677,33 \ hPa$$