

$$1) (6, 12) \text{ e } (15, 3)$$

$$x_0 = 6 \text{ e } y_0 = 12$$

$$x_1 = 15 \text{ e } y_1 = 3$$

$$L_0(x) = \frac{x - 15}{-9}$$

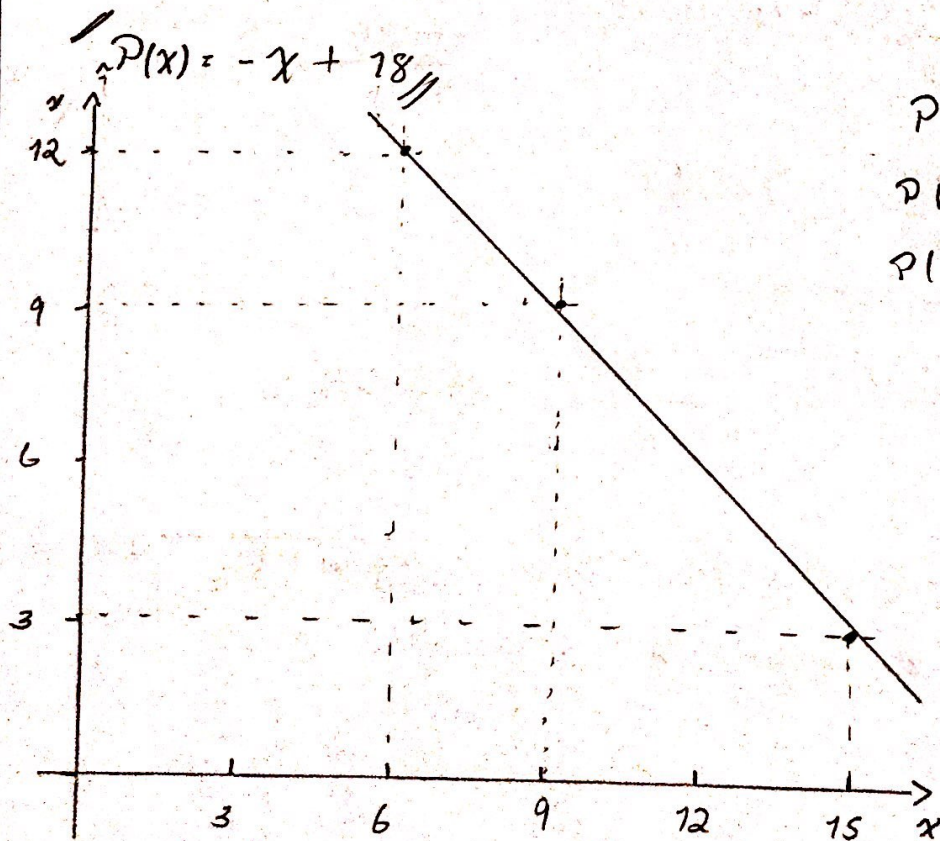
$$L_1(x) = \frac{x - 6}{9}$$

$$P(x) = \frac{x - 15}{-9} \cdot 12 + \frac{x - 6}{9} \cdot 3 \rightarrow \frac{12x - 180}{-9} + \frac{3x - 18}{9} \rightarrow -\frac{9x + 162}{9}$$

$$\frac{108}{x} = 3$$

$$3x = 108$$

$$x =$$



$$P(6) = -6 + 18 = 12$$

$$P(15) = -15 + 18 = 3$$

$$P(9) = -9 + 18 = 9$$

$$P(x) = -x + 18$$

$$2) \quad x_0 = -0,1 \quad p(x_0) = 10,6 \quad x_2 = 0,2 \quad p(x_2) = 6,38$$

$$x_1 = 0 \quad p(x_1) = 4,0 \quad x_3 = 0,3 \quad p(x_3) = 2,0$$

$$p(x_0, x_1) = \frac{4 - 10,6}{0,1} = \frac{-6,6}{0,1} = -66,0 \quad p(x_1, x_2) = \frac{6,38 - 4}{0,2} = \frac{2,38}{0,2} = 11,9$$

$$p(x_2, x_3) = \frac{2 - 6,38}{0,3 - 0,2} = \frac{-4,38}{0,1} = -43,8$$

$$p(x_0, x_1, x_2) = \frac{11,9 - 66,0}{0,2 - (-0,1)} = \frac{-54,1}{0,3} = -180,3333$$

$$p(x_1, x_2, x_3) = \frac{-43,8 - 11,9}{0,3} = \frac{-55,7}{0,3} = -185,6667$$

$$p(x_0, x_1, x_2, x_3) = \frac{-185,6667 - (-180,3333)}{0,3 - (-0,1)} = \frac{-5,3334}{0,4} = -13,3335$$

$$P(x) = 10,6 + (-66(x+0,1)) + (-180,3333(x+0,1)(x)) + (-13,3335(x+0,1)(x)(x-0,2))$$

$$P(x) = 10,6 - 66(x+0,1) - 180,3333x - 13,3335x(x+0,1)(x-0,2)$$

Prova:

$$P(0) = 10,6 - 66(0,1) - 0 - 0 = 10,6 - 6,6 = 4 //$$

$$P(-0,1) = 10,6 - 0 - 0 - 0 = 10,6$$

~~$$P(x) = 10,6 - 66(x+0,1) - 180,3333x - 13,3335x(x+0,1)(x-0,2)$$~~

$$P(x) = 10,6 - 66(x+0,1) - 180,3333x - 13,3335x(x+0,1)(x-0,2) //$$

i	x_i	y_i	x_i^2	$x_i y_i$	$P(x) = 1,7078x + 1,7994$
1	0,0	2,0	0	0	1,7994
2	0,5	2,5680	0,25	0,2840	2,6533
3	1,0	3,2974	1	3,2974	3,5072
4	1,5	4,2340	2,25	6,3510	4,3611
5	2,0	5,4366	4	10,8732	5,215
Some	5	17,536	7,5	21,8056	

$$a_0 = \frac{7,5 \cdot 17,536 - 21,8056 \cdot 5}{5 \cdot 7,5 - 5} = 1,79936$$

$$a_1 = \frac{5 \cdot 21,8056 - 5 \cdot 17,536}{5 \cdot 7,5 - 5} = 1,70784$$

$$P(x) = 1,7078x + 1,7994$$