

2. x	0°	1°	2°
2,4	-2,98	11,8333	-27,3667
2,7	0,57	-1,85	
2,9	0,2		

$$\frac{-2,98 - 0,57}{2,4 - 2,7} = \frac{-3,55}{-0,3} = 11,8333$$

$$\frac{0,57 - 0,2}{2,7 - 2,9} = \frac{0,37}{-0,2} = -1,85$$

$$\frac{11,8333 + 1,85}{2,4 - 2,9} = \frac{13,6833}{-0,5} = -27,3666$$

$$f(x) = -2,98 + (x - 2,4) \times 11,8333 + (x - 2,4)(x - 2,7) - 27,3667$$

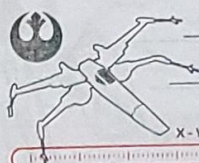
$$f(x) = -2,98 + (x - 2,4) \times 11,8333 + (x^2 - 5,1x + 6,48)x - 27,3667$$

$$f(x) = -2,98 + (11,8333x - 28,4) + (-27,3667x^2 + 139,57x - 177,336)$$

$$f(x) = -27,3667x^2 + 151,4633x - 208,216$$

$$f(2,56) \approx -0,4737$$

7
5
7
7
7
5
5



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4. $h = 0,2$

$$\frac{[f(x_0) + f(x_6)] + 4 \cdot (f(x_1) + f(x_3) + f(x_5)) + 2 \cdot (f(x_2) + f(x_4))}{3} \cdot h$$

$$\frac{0,2}{3} [(4,89 + 5,28) + 4 \times (3,2 + 0,99 + 5,05) + 2 \times (0,83 + 5,61)]$$

$$\frac{0,2}{3} [(4,89 + 5,28) + 4 \times (8,69) + 2 \times (6,44)]$$

$$3,854$$

3.

$$\sum y = a_1 h + a_2 \sum x + a_3 \sum x^2$$

$$\sum xy = a_1 \sum x + a_2 \sum x^2 + a_3 \sum x^3$$

$$\sum x^2 y = a_1 \sum x^2 + a_2 \sum x^3 + a_3 \sum x^4$$

↓

$$4a_1 + 13,9a_2 + 98,99a_3 = -9,9 \quad (1)$$

$$13,9a_1 + 98,99a_2 + 191,089a_3 = -19,732 \quad (2)$$

$$98,99a_1 + 191,089a_2 + 783,2098a_3 = -97,6598 \quad (3)$$

$$(1) \times 3,35 - (2) = -9,06a_2 - 27,135a_3 = -1,683 \quad (4)$$

$$(1) \times 12,235 - (3) = -27,135a_2 - 189,9289a_3 = -12,2967 \quad (5)$$

$$(4) \times 6,7 - (5) = 2,6244a_3 = -1,0206$$

$$a_3 = \frac{-1,0206}{2,6244} = -0,3889$$

$$-9,05a_2 - 27,135(-0,3889) = -1,683$$

$$a_2 = \frac{8,0695}{-9,05} = -0,891$$

$$4a_1 + 13,9(-0,891) + 98,99(-0,3889) = -9,9$$

$$a_1 = \frac{5,4138}{4} = 1,3534$$

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