① 

| X | y | XY | X^2 |
|---|---|---|---|
| 1 | 6,5 | 6,5 | 1 |
| 2 | 6 | 12 | 4 |
| 3 | 5,2 | 15,6 | 9 |
| 4 | 4,4 | 17,6 | 16 |
| 5 | 3,5 | 17,5 | 25 |
| 6 | 2,5 | 15 | 36 |
| 21 | | | 91 |
| 3,5 | 28,1 | 84,2 | |
| | 4,6833 | | |

$a_0$ ⎫ $a_1$
0,80257 ⎬ 7,51333

$a' = \dfrac{16 \times 84,2 - 21 \times 28,1}{(6 \times 91) - (217)}$

$a_2 = 7,5 + 240,83 \times 5,5$

②

| X | y | X^2 | X^13 | X^4 | X·Y | X^2·Y | Sf |
|---|---|---|---|---|---|---|---|
| 1 | 6,5 | 1 | 1 | 1 | 6,5 | 24 | 3,30 0277728 |
| 2 | 6 | 4 | 8 | 16 | 12 | 46,8 | 1,733 69 9995 |
| 3 | 5,2 | 9 | 27 | 81 | 15,6 | 70,4 | 0,266 944 844 |
| 4 | 4,4 | 16 | 64 | 256 | 17,6 | 97,5 | 0,90 0277778 |
| 5 | 3,5 | 25 | 125 | 625 | 17,5 | 90 | 1,40 0277778 |
| 6 | 2,5 | 36 | 216 | 1291 | 15 | 2557,1 | 4,7660 9494 |
| | | 91 | 441 | 2275 | | | |

$6a_0 + 21 a_0 + 9.a_2 = 28,1$

$21a_0 + 9,a_1 + 441 a_2 = 84,2$

$9,a_0 + 441a_1 + 2275a_2 = 2557,1$

$S_x$

95780,77339
30102,8857
486610,6318
446734,0875
201397,487
96978,32937
18876,181755

$0 = 56,223881$

$1 = -418,92732$

$2 = 59,71872$

$r = \sqrt{\dfrac{1687681,2 - 112,10}{16896812}}$

$r = 99,9\%$

$4/x = \sqrt{\dfrac{16826812}{6 - (299)}} = 750,94$

$f\ (3,25)$

$$f_1(4) = \frac{x-4}{3-4}\ (2,5) + \frac{x-3}{4-3}\ (2,2)$$

$$f_1 = \frac{2,5\,x - 10}{-1} + \frac{2,2x - 6,6}{1}$$

$$f_1 = -2,5x + 10 + 2,2x - 6,6$$

$$f_1 = 0,7x + 3,4 \qquad\qquad \boxed{f_1 = 2,425}$$

$$f = (3,25) = 0,5\ (3,25) + 3,4$$

$F_2$

$$f_2(x)\ \frac{(3,25-3)(3,25-4)}{(2-3)\ (2-4)} \qquad \frac{-5+2,5}{(3-2)\ (2-4)}\ \frac{3,25-2)(3,2}{}$$

$$= 0,28 + 2,34 + 0,34$$

$$\boxed{F_2 = 2,49625}$$

④ $F_5$

$$\frac{(3,25-3)(3,25-4)(3,25-5)(3)}{(2-3)(2-4)(2-5)}$$

$$+ \frac{(3,25-2)(3,25-4)(3,25-5)(2,5)}{(3-2)(3-4)(3-5)}$$

$$+ \frac{(2,2)(3,25-2)(3,25-3)(3)}{(4-2)(4-3)(4-5)}$$

$$+ \frac{(1,7)(3,25-2)(3,25-3)(3,25-4)}{(5-2)(5-3)(5-4)}$$

$$\boxed{X = 2,421845}$$