

ORIGIN := 1

$$T := \begin{pmatrix} 343.15 \\ 353.15 \end{pmatrix}$$

$$x_1 := \begin{pmatrix} 0.049 \\ 0.12 \\ 0.193 \\ 0.267 \\ 0.339 \\ 0.413 \\ 0.482 \\ 0.542 \\ 0.616 \\ 0.687 \\ 0.761 \\ 0.825 \\ 0.878 \\ 0.923 \\ 0.957 \\ 0.983 \end{pmatrix} \quad \gamma_1 := \begin{pmatrix} 1.67 \\ 1.58 \\ 1.51 \\ 1.45 \\ 1.38 \\ 1.31 \\ 1.26 \\ 1.22 \\ 1.16 \\ 1.12 \\ 1.07 \\ 1.05 \\ 1.02 \\ 1.01 \\ 1 \\ 1 \end{pmatrix} \quad \gamma_2 := \begin{pmatrix} 1 \\ 1.01 \\ 1.02 \\ 1.03 \\ 1.05 \\ 1.09 \\ 1.12 \\ 1.17 \\ 1.26 \\ 1.35 \\ 1.49 \\ 1.66 \\ 1.86 \\ 2.08 \\ 2.39 \\ 2.5 \end{pmatrix}$$

i := 1 .. 16

$$x_{2_i} := 1 - x_{1_i}$$

$$\gamma_{1New_i} := \exp\left(\frac{T_1}{T_2} \cdot \ln(\gamma_{1_i})\right)$$

$$\gamma_{2New_i} := \exp\left(\frac{T_1}{T_2} \cdot \ln(\gamma_{2_i})\right)$$

$$Gex_i := x_{1_i} \cdot \ln(\gamma_{1New_i}) + x_{2_i} \cdot \ln(\gamma_{2New_i})$$

$$y_i := \frac{Gex_i}{x_{1_i} \cdot x_{2_i}}$$

$$\text{slope}(x_1, y) = 0.404$$

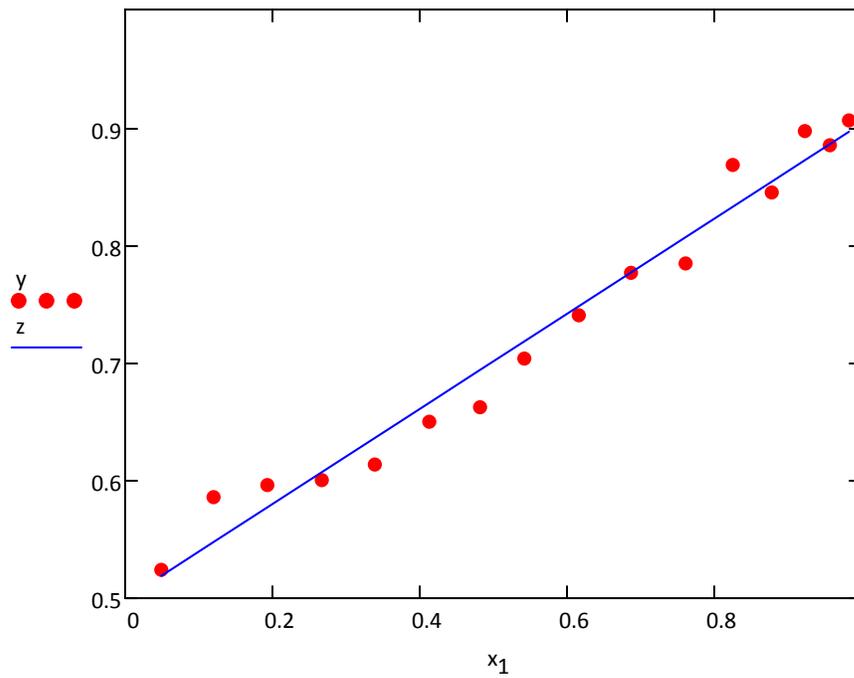
$$\text{intercept}(x_1, y) = 0.499$$

$$\text{corr}(x_1, y) = 0.987$$

$$B := \frac{\text{slope}(x_1, y)}{2} = 0.202$$

$$A := \text{intercept}(x_1, y) + B = 0.701$$

$$z_i := \text{slope}(x_1, y) \cdot x_{1_i} + \text{intercept}(x_1, y)$$



$$x_1 := \begin{pmatrix} 0.056 \\ 0.133 \\ 0.218 \\ 0.299 \\ 0.368 \\ 0.438 \\ 0.496 \\ 0.549 \\ 0.621 \\ 0.696 \\ 0.762 \\ 0.819 \\ 0.867 \\ 0.907 \\ 0.940 \\ 0.967 \\ 0.986 \end{pmatrix}$$

$$i := 1 .. 17$$

$$x_{2_i} := 1 - x_{1_i}$$

$$\gamma_{1C_i} := \exp\left[\left(x_{2_i}\right)^2 \cdot \left(1.307 - 0.808 x_{2_i}\right)\right]$$

$$\gamma_{2C_i} := \exp\left[\left(x_{1_i}\right)^2 \cdot \left(0.095 + 0.808 x_{1_i}\right)\right]$$

$$P_1 := 89.34 \quad P_2 := 57.04$$

$$P_i := x_{1_i} \cdot \gamma_{1C_i} \cdot P_1 + x_{2_i} \cdot \gamma_{2C_i} \cdot P_2$$

$$y_{1_i} := \frac{x_{1_i} \cdot P_1 \cdot \gamma_{1C_i}}{P_i}$$

$y_1 =$

	1
1	0.131
2	0.274
3	0.394
4	0.483
5	0.543
6	0.595
7	0.632
8	0.663
9	0.702
10	0.742
11	0.78
12	0.816
13	0.852
14	0.887
15	0.921
16	0.953
17	0.979

$P =$

	1
1	62
2	68.38
3	74.61
4	79.65
5	83.21
6	86.17
7	88.17
8	89.67
9	91.27
10	92.43
11	93.02
12	93.16
13	92.91
14	92.38
15	91.64
16	90.78
17	90.01