

Taren 1-02

$$1.2345x + 0.00893452y = 0.000123$$

$$3.84291x + 0.02781y = 0.0009826$$

$$\begin{vmatrix} 1.235 \times 10^1 & 8935 \times 10^{-2} & 1230 \times 10^{-3} \\ 3843 \times 10^1 & 2781 \times 10^{-1} & 9827 \times 10^{-3} \end{vmatrix}$$

$$y = \frac{1230 \times 10^{-3}}{8935 \times 10^{-2}} - \frac{1238 \times 10^{-1}}{8935 \times 10^{-1}} = 0.1370 \times 10^{-1} - 1387 \times 10^{-3}$$

$$1234x \times 10^1 + 8935 \times 10^{-2} (0.1370 \times 10^{-1} - 1387 \times 10^{-3}) = 1234x \times 10^1 + \cancel{0.1223 \times 10^{-1}} + 0$$

$$3843 \times 10^1 + 0.2781 (0.137 \times 10^{-1} - 1387 \times 10^{-3}) = 3843 \times 10^1 + 3809 \times 10^{-3} - 0 = \cancel{3843 \times 10^1}$$

$$= 3843 \times 10^1 = 9827 \times 10^{-3}$$

$$x = \frac{9827 \times 10^{-3}}{3844 \times 10^1} =$$

real

$$y = \frac{0.000123}{0.009102} - \frac{1.2345x}{0.00893452}$$

$$= 0.013766 - 138.171944x$$

~~$$1.2345x + 0.00893452y = 0.000123$$~~

$$x = 1.7224$$

$$y = -237.98$$

$$X = \frac{0.1230 \times 10^{-3}}{0.1235 \times 10^1} - \frac{0.8935 \times 10^0}{0.1235 \times 10^1} = 0.9595 \times 10^{-1} - 0.7234 \times 10^{-2}$$

$$0.3843 \times 10^1 (0.1595 \times 10^0 - 0.7234 \times 10^{-2}) = 0.4827 \times 10^{-3}$$

$$y = 0.116 \times 10^{-3} / -0.2780 \times 10^{-1} = -0.2209 \times 10^{-1}$$

$$\therefore x = (0.1230 \times 10^{-3} + 0.1172 \times 10^{-1}) / 0.1235 \times 10^1$$

$$= 0.2592 \times 10^{-3}$$

$$E_x = \frac{1.7229 - 0.0002592}{1.7229} = \frac{1.7221408}{1.7229} = 99.98\%$$

$$E_y = \frac{237.98 - 0.0209}{237.98} = \frac{237.9591}{237.98} = 99.99\%$$