

תרגיל בית 1 - אנו ליזה נומרית

מגישיים:

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:1,) Skell

$$\left(\begin{array}{cc|c} 0.04 & 57.8 & 58.2 \\ 5.29 & -6.2 & 46.7 \end{array} \right) \xrightarrow{l_{21} = \frac{5.29}{0.04} = 132.25} \text{rs}(3) \rightarrow 132$$

$$\left[R_2 \rightarrow R_2 - 132R_1 \right] \rightarrow \left(\begin{array}{cc|c} 0.04 & 57.8 & 58.2 \\ 0 & -7,640 & -7,640 \end{array} \right)$$

$$-7,640 \cdot y = -7,640$$

$$\boxed{y=1}$$

$$0.04 \times 57.8 \cdot 1 = 58.2$$

$$0.04x = 0.4 \quad | :0.04$$

$$X = 10$$

2) : X ist ein Maß der Abweichung

$$A.E = |x' - x| = |10 - 10| = |0| = 0$$

$$\text{Abweichung} = \frac{A.E}{x'} \cdot 100\% = \frac{0}{10} \cdot 100\% = 0\%$$

: y ist ein Maß der Abweichung

$$A.E = |y' - y| = |1 - 1| = |0| = 0$$

$$\text{Abweichung} = \frac{A.E}{y'} \cdot 100\% = \frac{0}{1} \cdot 100\% = 0\%$$

O.I. ମାତ୍ରାକୀଳ ଅଳ୍ପିଲେ ବ୍ୟାଙ୍କ

• Y ୨୧୨୪୧ X ୨୧୨୪

c)
$$\left(\begin{array}{cc|c} 0.04 & 57.8 & 58.2 \\ 5.29 & -6.2 & 46.7 \end{array} \right) \xrightarrow{R_1 \leftrightarrow R_2}$$

$$\left(\begin{array}{cc|c} 5.29 & -6.2 & 46.7 \\ 0.04 & 57.8 & 58.2 \end{array} \right) \xrightarrow{\frac{l_{21} = \frac{0.04}{5.29} = 0.00756}{rd(3) \rightarrow 0.00756}}$$

$$\left[R_2 \rightarrow R_2 - 0.00756 \cdot R_1 \right] \rightarrow$$

$$\left(\begin{array}{cc|c} 5.29 & -6.2 & 46.7 \\ 0 & 57.8 & 57.8 \end{array} \right)$$

$$57.8 \cdot y^* = 57.8 \rightarrow \boxed{y^* = 1}$$

$$5.29 x^* - 6.2 \cdot 1 = 46.7$$

$$5.29 x^* = 52.9 \mid :5.29$$

$$\boxed{x^* = 10}$$

: X 1108 1001 1101 1010 1101

$$A.E = |x' - x^*| = |10 - 10| = |0| = 0$$

$$\frac{\text{אפקט}}{\text{טונין}} = \frac{A \cdot E}{x} \cdot 100\% = \frac{0}{10} \cdot 100\% = 0\%$$

∵ y ≠ y^* \rightarrow אפקט ≠ 0%

$$A \cdot E = |y - y^*| = |1 - 1| = |0| = 0$$

$$\frac{\text{אפקט}}{\text{טונין}} = \frac{A \cdot E}{y^*} \cdot 100\% = \frac{0}{1} \cdot 100\% = 0\%$$

0% ≠ 0% → אפקט ≠ 0%

∴ y ≠ y^* \rightarrow אפקט ≠ 0%