

Applications:

$$A) U = 9,00V \quad g = 0,01V \quad (9,00 \rightarrow 9,01) \\ u(U) = \frac{0,01}{\sqrt{12}} = 0,00288V$$

$$U = 9,00 \pm 0,003V$$

$$B) \alpha = 8,96\% \text{ et } \sigma_{\alpha} = 0,4\% \\ \frac{\sigma}{\sqrt{16}} = 0,14$$

$$\alpha = 8,96 \pm 0,14$$

$$C) u(U)$$

$$U(A) \pm 0,01V = \frac{0,01}{\sqrt{12}} = 2,9 \times 10^{-3}$$

$$U(B) \pm 0,1 = \frac{0,1}{\sqrt{6}} = 4,1 \times 10^{-2}$$

$$u(U) = \sqrt{(2,9 \times 10^{-3})^2 + (4,1 \times 10^{-2})^2} = 4,1 \times 10^{-2}$$