ⓒ $4^{1+\log x} - 6^{\log x} - 2\cdot 3^{2+\log x^2} = 0$

$4\cdot 2^{2\log x} - 3^{\log x}\cdot 2^{\log x} - 2\cdot 9\cdot 3^{2\log x} = 0 \quad / : 3^{2\log x} \neq 0$

$4\left(\frac{2}{3}\right)^{2\log x} - \left(\frac{2}{3}\right)^{\log x} - 18 = 0$

$t = \left(\frac{2}{3}\right)^{\log x}$ (מ.מ)

$t_1 = \frac{9}{4} = \left(\frac{2}{3}\right)^{-2}$

$\left(\frac{2}{3}\right)^{\log x} = \left(\frac{2}{3}\right)^{-2}$

$\log x = -2$

$\boxed{x = 0.01}$

$t_2 = -2$

$\left(\frac{2}{3}\right)^{\log x} = -2$

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תחום הגדרה

$\log x \leftarrow \begin{matrix} x > 0 \\ x^2 > 0 \end{matrix}$

$\boxed{0 < x}$