

$$\left(\frac{1}{64^2}\right)^{-x} = \sqrt{\frac{1}{8}}$$

$$(0,5)^{x^2} \cdot 4^{x+1} = 64^{-1}$$

$$5^{2x-4} = 49^{2-x}$$

$$4^x - 2^{x+1} - 8 = 0$$

$$3^{x+1} + 3^x - 3^{x-2} = 35$$