

S 80 Nr 5

$$a) \log(x) = 2 \Rightarrow 10^{\log(x)} = 10^2 \Rightarrow \underline{\underline{x = 10^2 = 100}}$$

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$$b) 2 \log(x) = 1 \Rightarrow \log(x) = \frac{1}{2} \Rightarrow 10^{\log(x)} = 10^{\frac{1}{2}} \Rightarrow \underline{\underline{x = 10^{\frac{1}{2}} = \sqrt{10}}}$$

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$$c) \log(2x) = 0,5 \Rightarrow 10^{\log(2x)} = 10^{0,5} \Rightarrow 2x = 10^{0,5} \Rightarrow \underline{\underline{x = \frac{\sqrt{10}}{2}}}$$

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$$d) \log(x+1) = -1 \Rightarrow 10^{\log(x+1)} = 10^{-1} \Rightarrow x+1 = 10^{-1} \Rightarrow \underline{\underline{x = \frac{1}{10} - 1}}$$
$$\underline{\underline{x = -0,9}}$$

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$$e) 5 \log(1-x) = 0 \Rightarrow \log(1-x) = \frac{0}{5} = 0 \Rightarrow 10^{\log(1-x)} = 10^0$$
$$\Rightarrow 1-x = 1 \Rightarrow \underline{\underline{x = 0}}$$