

1.

<p>1) $\log_5 25 = ?$ $\log_5 25 = x$ $25 = 5^x$ $5^2 = 5^x$ $2 = x$ $x = 2$</p>	<p>Zadatak rješavamo pomoću pravila br.1. : $\log_a b = c \Rightarrow b = a^c$ uvdemo nepoznanicu x , pa imamo $a = 5, b = 25, c = x$ $b = a^c$, $25 = 5^2$ primjenimo pravilo br.30</p>
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[Pravila za LOGARITMIČANJE](#)

<p>1) $\log_5 25 = x$ $25 = 5^x$ $5^2 = 5^x$ $2 = x$ $x = 2$</p>	<p>2) $\log_3 3 = x$ $3 = 3^x$ $3^1 = 3^x$ $1 = x$ $x = 1$</p>
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<p>3) $\log_2 8 = x$ $8 = 2^x$ $2^3 = 2^x$ $3 = x$ $x = 3$</p>	<p>4) $\log_2 8 = x$ $2 = 8^x$ $2^1 = (2^3)^x$ $2^1 = 2^{3x}$ $1 = 3x$ $3x = 1 \quad / : 3$ $x = \frac{1}{3}$</p>
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<p>5) $\log_9 3 = x$ $3 = 9^x$ $3^1 = (3^2)^x$ $1 = 2x$ $2x = 1 \quad / : 2$ $x = \frac{1}{2}$</p>	<p>6) $\log_4 0.25 = x$ $0.25 = 4^x$ $\frac{25}{100} = 4^x$ $\left(\frac{1}{4}\right) = 4^x$ $4^{-1} = 4^x$ $-1 = x$ $x = -1$</p>
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1.

$$\begin{aligned}7) \quad \log 100 &= x \\ \log_{10} 100 &= x \\ 100 &= 10^x \\ 10^2 &= 10^x \\ 2 &= x \\ x &= 2\end{aligned}$$

$$\begin{aligned}8) \quad \log 0.1 &= x \\ \log_{10} 0.1 &= x \\ 0.1 &= 10^x \\ \frac{1}{10} &= 10^x \\ 10^{-1} &= 10^x \\ -1 &= x \\ x &= -1\end{aligned}$$

$$\begin{aligned}9) \quad \log 1000 &= x \\ \log_{10} 1000 &= x \\ 1000 &= 10^x \\ 10^3 &= 10^x \\ 3 &= x \\ x &= 3\end{aligned}$$

$$\begin{aligned}10) \quad \log 0.01 &= x \\ \log_{10} 0.01 &= x \\ 0.01 &= 10^x \\ \frac{1}{100} &= 10^x \\ \frac{1}{10^2} &= 10^x \\ 10^{-2} &= 10^x \\ -2 &= x \\ x &= -2\end{aligned}$$



2. Koliko je:

1) $\log_2 8 = x$

$$8 = 2^x$$

$$2^3 = 2^x$$

$$3 = x$$

$$x = 3$$

2) $\log_3 27 = x$

$$27 = 3^x$$

$$3^3 = 3^x$$

$$3 = x$$

$$x = 3$$

3) $\log_2 16 = x$

$$16 = 2^x$$

$$2^4 = 2^x$$

$$4 = x$$

$$x = 4$$

4) $\log_{\frac{1}{2}} 16 = x$

$$16 = \left(\frac{1}{2}\right)^x$$

$$2^4 = (2^{-1})^x$$

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

$$4 = -x$$

$$x = -4$$

5) $\log_{\frac{1}{2}} 32 = x$

$$32 = \left(\frac{1}{2}\right)^x$$

$$2^5 = (2^{-1})^x$$

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

$$5 = -x$$

$$x = -5$$

6) $\log_{\frac{1}{3}} 27 = x$

$$27 = \left(\frac{1}{3}\right)^x$$

$$3^3 = (3^{-1})^x$$

$$3^3 = 3^{-x}$$

$$3 = -x$$

$$x = -3$$

7) $\log_{\frac{1}{3}} \sqrt{3} = x$

$$\sqrt{3} = \left(\frac{1}{3}\right)^x$$

$$3^{\frac{1}{2}} = (3^{-1})^x$$

$$3^{\frac{1}{2}} = 3^{-x}$$

$$\frac{1}{2} = -x$$

$$x = -\frac{1}{2}$$

8) $\log_{\frac{1}{2}} 64 = x$

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

$$2^6 = (2^{-1})^x$$

$$2^6 = 2^{-x}$$

$$6 = -x$$

$$x = -6$$

9) $\log_2 \sqrt{2} = x$

$$\sqrt{2} = 2^x$$

$$2^{\frac{1}{2}} = 2^x$$

$$\frac{1}{2} = x$$

$$x = \frac{1}{2}$$

3.

$$\begin{aligned} 1) \quad \log_2 x &= 4 \\ x &= 2^4 \\ x &= 16 \end{aligned}$$

$$\begin{aligned} 2) \quad \log_3 x &= 9 \\ x &= 3^9 \end{aligned}$$

$$\begin{aligned} 3) \quad \log_{\frac{1}{2}} x &= 2 \\ x &= \left(\frac{1}{2}\right)^2 \\ x &= \frac{1}{4} \end{aligned}$$

$$\begin{aligned} 4) \quad \log_9 x &= \frac{1}{2} \\ x &= (9)^{\frac{1}{2}} \\ x &= \sqrt{9} \\ x &= 3 \end{aligned}$$

$$\begin{aligned} 5) \quad \log_8 x &= \frac{1}{3} \\ x &= (8)^{\frac{1}{3}} \\ x &= \sqrt[3]{8} \\ x &= 2 \end{aligned}$$

$$\begin{aligned} 6) \quad \log_3 x &= \frac{1}{2} \\ x &= 3^{\frac{1}{2}} \\ x &= \sqrt{3} \end{aligned}$$

$$\begin{aligned} 7) \quad \log_2 x &= \frac{1}{3} \\ x &= 2^{\frac{1}{3}} \\ x &= \sqrt[3]{2} \end{aligned}$$

$$\begin{aligned} 8) \quad \log_2 x &= 0 \\ x &= 2^0 \\ x &= 1 \end{aligned}$$

$$\begin{aligned} 9) \quad \log_{0.1} x &= 2 \\ x &= 0.1^2 \\ x &= \left(\frac{1}{10}\right)^2 \\ x &= \frac{1}{100} \end{aligned}$$

$$\begin{aligned} 10) \quad \log_{25} x &= \frac{1}{2} \\ x &= 25^{\frac{1}{2}} \\ x &= \sqrt{25} \\ x &= 5 \end{aligned}$$

$$\begin{aligned} 11) \quad \log_{27} x &= \frac{1}{3} \\ x &= 27^{\frac{1}{3}} \\ x &= \sqrt[3]{27} \\ x &= \sqrt[3]{3^3} \\ x &= 3 \end{aligned}$$

4.

1) $\log_x 9 = \frac{2}{3}$

$$9 = x^{\frac{2}{3}} \quad / \cdot \frac{3}{2}$$

$$9^{\frac{3}{2}} = x$$

$$x = 9^{\frac{3}{2}}$$

$$x = (3^2)^{\frac{3}{2}}$$

$$x = 3^{\frac{2}{1} \cdot \frac{3}{2}}$$

$$x = 3^3$$

$$x = 27$$

2) $\log_x 16 = \frac{4}{5}$

$$16 = x^{\frac{4}{5}}$$

$$16^{\frac{5}{4}} = x$$

$$x = 16^{\frac{1}{4} \cdot 5}$$

$$x = \left((2^4)^{\frac{1}{4}} \right)^5$$

$$x = 2^5$$

$$x = 32$$

3) $\log_x 36 = -2$

$$36 = x^{-2} \quad / \cdot \frac{1}{-2}$$

$$36^{-\frac{1}{2}} = x$$

$$x = 36^{-\frac{1}{2}}$$

$$x = \frac{1}{36^{\frac{1}{2}}}$$

$$x = \frac{1}{\sqrt{36}}$$

$$x = \frac{1}{6}$$

4) $\log_x 81 = -\frac{4}{3}$

$$81 = x^{-\frac{4}{3}} \quad / \cdot \frac{3}{-4}$$

$$81^{-\frac{3}{4}} = x$$

$$x = 81^{-\frac{3}{4}}$$

$$x = (3^4)^{-\frac{3}{4}}$$

$$x = 3^{\frac{4}{1} \cdot (-\frac{3}{4})}$$

$$x = 3^{-3}$$

$$x = \frac{1}{3^3}$$

$$x = \frac{1}{27}$$

4.

$$\begin{aligned}
 5) \quad \log_x \frac{1}{16} &= -8 \\
 \frac{1}{16} &= x^{-8} \quad /^{-\frac{1}{8}} \\
 \left(\frac{1}{16}\right)^{-\frac{1}{8}} &= x \\
 x &= \left(\frac{1}{16}\right)^{-\frac{1}{8}} \\
 x &= \left(\frac{16}{1}\right)^{\frac{1}{8}} \\
 x &= \left(2^4\right)^{\frac{1}{8}} \\
 x &= 2^{4 \cdot \frac{1}{8}} \\
 x &= 2^{\frac{1}{2}} \\
 x &= \sqrt{2}
 \end{aligned}$$

$$\begin{aligned}
 6) \quad \log_x \sqrt{3} &= \frac{1}{2} \\
 \sqrt{3} &= x^{\frac{1}{2}} \quad /^2 \\
 \sqrt{3^2} &= x \\
 3 &= x \\
 x &= 3
 \end{aligned}$$

$$\begin{aligned}
 7) \quad \log_x \sqrt[3]{2} &= \frac{1}{3} \\
 \sqrt[3]{2} &= x^{\frac{1}{3}} \quad /^3 \\
 \sqrt[3]{2^3} &= x \\
 2 &= x \\
 x &= 2
 \end{aligned}$$

$$\begin{aligned}
 8) \quad \log_x \sqrt[3]{2} &= \frac{1}{6} \\
 \sqrt[3]{2} &= x^{\frac{1}{6}} \quad /^6 \\
 \sqrt[3]{2^6} &= x \\
 x &= \sqrt[3]{2^6} \\
 x &= \left(2^6\right)^{\frac{1}{3}} \\
 x &= 2^{\frac{6}{3}} \\
 x &= 2^2 \\
 x &= 4
 \end{aligned}$$

9) $\log_x 25 = 2$

$$25 = x^2 \quad /^{\frac{1}{2}}$$

$$25^{\frac{1}{2}} = x$$

$$x = 25^{\frac{1}{2}}$$

$$x = \sqrt{25}$$

$$x = 5$$

10) $\log_x \frac{8}{27} = 3$

$$\frac{8}{27} = x^3$$

$$\left(\frac{8}{27}\right)^{\frac{1}{3}} = x$$

$$x = \left(\frac{8}{27}\right)^{\frac{1}{3}}$$

$$x = \left(\frac{2^3}{3^3}\right)^{\frac{1}{3}}$$

$$x = \left(\left(\frac{2}{3}\right)^3\right)^{\frac{1}{3}}$$

$$x = \frac{2}{3}$$



5.

1) $3^{\log_3 5} = x \rightarrow$ po pravilu $a^{\log_a x} = x$

2) $2^{\log_2 7} = 7$

3) $\left(\frac{1}{2}\right)^{\log_2 5} = (2^{-1})^{\log_2 5} = 2^{-1 \log_2 5} = 2^{\log_2 5^{-1}} = 2^{\log_2 \frac{1}{5}} = \frac{1}{5}$

4) $3^{\log_9 6} = 3^{\log_{3^2} 6} = 3^{\frac{1}{2} \log_3 6} = 3^{\log_3 6^{\frac{1}{2}}} = 6^{\frac{1}{2}} = \sqrt{6}$

5) $4^{\log_2 5} = 2^{2 \log_2 5} = 2^{\log_2 5^2} = 5^2 = 25$

6) $25^{\log_5 2} = 5^{2 \log_5 2} = 5^{\log_5 2^2} = 2^2 = 4$

7) $3^{\log_9 25} = 3^{\log_{3^2} 25} = 3^{\frac{1}{2} \log_3 25} = 3^{\log_3 25^{\frac{1}{2}}} = 25^{\frac{1}{2}} = \sqrt{25} = 5$

8) $\left(\frac{1}{4}\right)^{\log_4 5} = (4^{-1})^{\log_4 5} = 4^{\log_4 5^{-1}} = 5^{-1} = \frac{1}{5}$

[Pravila za LOGARITMIANJE](#)

7. Logaritmiraj:

$$\begin{aligned} 1) \quad \log \frac{100}{x^2} &= \log 100 - \log x^2 = \log 10^2 - 2 \log x = 2 \log 10 - 2 \log x = \\ &= 2 \cdot 1 - 2 \log x = 2 - 2 \log x \end{aligned}$$

$$\begin{aligned} 2) \quad \log \frac{x^2}{10y^3} &= \log x^2 - \log(10y^3) = 2 \log x - (\log 10 + \log y^3) = 2 \log x - \log 10 - 3 \log y = \\ &= 2 \log x - 1 - 3 \log y \end{aligned}$$

$$\begin{aligned} 3) \quad \log \frac{\sqrt{xy}}{100} &= \log \sqrt{xy} - \log 100 = \log(\sqrt{x} \cdot \sqrt{y}) - \log 10^2 = \log \sqrt{x} + \log \sqrt{y} - 2 \cdot \log 10 = \\ &= \log x^{\frac{1}{2}} + \log y^{\frac{1}{2}} - 2 \cdot 1 = \frac{1}{2} \log x + \frac{1}{2} \log y - 2 \end{aligned}$$

$$\begin{aligned} 4) \quad \log \frac{\sqrt[3]{x^2}}{100} &= \log \sqrt[3]{x^2} - \log 100 = \log(x^2)^{\frac{1}{3}} - \log 10^2 = \log x^{\frac{2}{3}} - 2 \log 10 = \\ &= \frac{2}{3} \cdot \log x - 2 \cdot 1 = \frac{2}{3} \log x - 2 \end{aligned}$$

$$\begin{aligned} 5) \quad \log \frac{100x^2}{\sqrt{x}} &= \log(100x^2) - \log \sqrt{x} = \log 100 + \log x^2 - \log x^{\frac{1}{2}} = \\ &= \log 10^2 + 2 \log x - \frac{1}{2} \log x = 2 \log 10 + \left(2 - \frac{1}{2}\right) \log x = \\ &= 2 + \frac{3}{2} \log x \end{aligned}$$

7.

$$\begin{aligned}
 6) \quad \log \frac{x^2 y^3}{10\sqrt{x}} &= \log(x^2 y^3) - \log(10\sqrt{x}) = \log x^2 + \log y^3 - (\log 10 + \log \sqrt{x}) = \\
 &= 2 \log x + 3 \log y - \log 10 - \log x^{\frac{1}{2}} = 2 \log x + 3 \log y - 1 - \frac{1}{2} \log x
 \end{aligned}$$

$$\begin{aligned}
 7) \quad \log \frac{x^2 y^3}{\sqrt{10}} &= \log(x^2 y^3) - \log \sqrt{10} = \log x^2 + \log y^3 - \log 10^{\frac{1}{2}} = \\
 &= 2 \log x + 3 \log y - \frac{1}{2} \log 10 = 2 \log x + 3 \log y - \frac{1}{2}
 \end{aligned}$$

$$\begin{aligned}
 8) \quad \log \sqrt{\frac{10x}{\sqrt{y}}} &= \log \frac{\sqrt{10x}}{\sqrt{\sqrt{y}}} = \log \frac{\sqrt{10} \cdot \sqrt{x}}{\sqrt[4]{y}} = \log(\sqrt{10} \cdot \sqrt{x}) - \log \sqrt[4]{y} = \\
 &= \log \sqrt{10} + \log \sqrt{x} - \log y^{\frac{1}{4}} = \log 10^{\frac{1}{2}} + \log x^{\frac{1}{2}} - \frac{1}{4} \log y = \\
 &= \frac{1}{2} \log 10 + \frac{1}{2} \log x - \frac{1}{4} \log y = \frac{1}{2} + \frac{1}{2} \log x - \frac{1}{4 \log y}
 \end{aligned}$$

$$\begin{aligned}
 9) \quad \log \sqrt[5]{\frac{x^2 y^3}{1000}} &= \log \left(\frac{x^2 y^3}{1000} \right)^{\frac{1}{5}} = \frac{1}{5} \log \frac{x^2 y^3}{1000} = \frac{1}{5} (\log(x^2 y^3) - \log 1000) = \\
 &= \frac{1}{5} (\log x^2 + \log y^3 - \log 10^3) = \frac{1}{5} (2 \log x + 3 \log y - 3 \log 10) = \\
 &= \frac{1}{5} \cdot 2 \log x + \frac{1}{5} \cdot 3 \log y - \frac{1}{5} \cdot 3 \cdot 1 = \frac{2}{5} \log x + \frac{3}{5} \log y - \frac{3}{5}
 \end{aligned}$$

6. Logaritmiraj:

$$1) \quad \log(10x) = \log 10 + \log x = 1 + \log x$$

$$2) \quad \log 100x^2 = \log 100 + \log x^2 = \log 10^2 + 2 \log x = 2 \log 10 + 2 \log x = \\ = 2 \cdot 1 + 2 \log x = 2 + 2 \log x$$

$$3) \quad \log(x^2 y^3 z^4) = \log x^2 + \log y^3 + \log z^4 = 2 \log x + 3 \log y + 4 \log z$$

$$4) \quad \log \frac{10}{x} = \log 10 - \log x = 1 - \log x$$

$$5) \quad \log \frac{x^2}{y^3} = \log x^2 - \log y^3 = 2 \log x - 3 \log y$$

$$6) \quad \log x^2 = 2 \log x$$

$$7) \quad \log x^3 = 3 \log x$$

$$8) \quad \log \frac{x^3}{y^5} = \log x^3 - \log y^5 = 3 \log x - 5 \log y$$

$$9) \quad \log \frac{\sqrt{x}}{y^3} = \log \sqrt{x} - \log y^3 = \log x^{\frac{1}{2}} - 3 \log y = \frac{1}{2} \log x - 3 \log y$$

$$10) \quad \log \sqrt[3]{x} = \log x^{\frac{1}{3}} = \frac{1}{3} \log x$$

6.

$$11) \log \sqrt[5]{x} = \log x^{\frac{1}{5}} = \frac{1}{5} \log x$$

$$12) \log \sqrt[4]{\frac{10}{x}} = \log \frac{\sqrt[4]{10}}{\sqrt[4]{x}} = \log \sqrt[4]{10} - \log \sqrt[4]{x} = \log 10^{\frac{1}{4}} - \log x^{\frac{1}{4}} = \frac{1}{4} \log 10 - \frac{1}{4} \log x = \\ = \frac{1}{4} \cdot 1 - \frac{1}{4} \log x = \frac{1}{4} - \frac{1}{4} \log x$$

$$13) \log \sqrt[3]{100x^2} = \log (100x^2)^{\frac{1}{3}} = \frac{1}{3} \log (100 \cdot x^2) = \frac{1}{3} (\log 100 + \log x^2) = \\ = \frac{1}{3} \cdot (\log 10^2 + 2 \log x) = \frac{1}{3} \cdot (2 \log 10 + 2 \log x) = \frac{1}{3} (2 \cdot 1 + 2 \log x) = \\ = \frac{2}{3} + \frac{2}{3} \log x$$

$$14) \log \sqrt[5]{10x^3} = \log (10x^3)^{\frac{1}{5}} = \frac{1}{5} \log (10x^3) = \frac{1}{5} (\log 10 + \log x^3) = \\ = \frac{1}{5} (1 + 3 \log x) = \frac{1}{5} + \frac{3}{5} \log x$$

$$15) \log_1 1 = 0 \rightarrow \text{po pravilu } \log_a 1 = 0$$

$$16) \log_3 1 = 0$$

$$17) \log_5 1 = 0$$



8.

$$1) \frac{\log 36}{\log 2 + \log 3} = \frac{\log 6^2}{\log(2 \cdot 3)} = \frac{2 \log 6}{\log 6} = \frac{2 \cancel{\log 6}}{\cancel{\log 6}} = 2$$

$$2) \frac{\log 324}{\log 3 + \log 6} = \frac{\log 18^2}{\log(3 \cdot 6)} = \frac{2 \log 18}{\log 18} = \frac{2 \cancel{\log 18}}{\cancel{\log 18}} = 2$$

$$3) \frac{\log 3 - \log 5}{\log \frac{9}{25}} = \frac{\log \frac{3}{5}}{\log \left(\frac{3}{5}\right)^2} = \frac{\log \frac{3}{5}}{2 \log \frac{3}{5}} = \frac{1 \cdot \cancel{\log \frac{3}{5}}}{2 \cdot \cancel{\log \frac{3}{5}}} = \frac{1}{2}$$

$$4) \frac{\log \frac{4}{25}}{\log 2 - \log 5} = \frac{\log \left(\frac{2}{5}\right)^2}{\log \frac{2}{5}} = \frac{2 \cdot \log \frac{2}{5}}{\log \frac{2}{5}} = \frac{2 \cdot \cancel{\log \frac{2}{5}}}{\cancel{\log \frac{2}{5}}} = 2$$

$$5) \frac{1 + \log 2.5}{\log 35 - \log 7} = \frac{\log 10 + \log 2.5}{\log \frac{35}{7}} =$$

$$= \frac{\log(10 \cdot 2.5)}{\log 5} = \frac{\log 25}{\log 5} = \frac{\log 5^2}{\log 5} = \frac{2 \log 5}{\log 5} = \frac{2 \cancel{\log 5}}{\cancel{\log 5}} = 2$$

[Pravila za LOGARITMIRANJE](#)

9.

1) $\log(x+2) + \log(x-4) = \log(2x-3)$

$$\log[(x+2)(x-4)] = \log(2x-3)$$

$$(x+2)(x-4) = 2x-3$$

$$x^2 - 4x + 2x - 8 - 2x + 3 = 0$$

$$x^2 - 4x - 5 = 0$$

$$x_{1,2} = \frac{-(-4) \pm \sqrt{(-4)^2 - 4 \cdot 1 \cdot (-5)}}{2 \cdot 1} = \frac{4 \pm \sqrt{16+20}}{2} = \frac{4 \pm \sqrt{36}}{2} = \frac{4 \pm 6}{2}$$

$$x_1 = \frac{4-6}{2} = -\frac{2}{2}$$

$$x_2 = \frac{4+6}{2} = \frac{10}{2}$$

$$x_1 = -1$$

$$x_2 = 5$$

uvjet kaže da mora biti: $x > 4$ pa je jedino rješenje $x = 5$

uvjeti :

$x+2 > 0$

$x-4 > 0$

$2x-3 > 0$

$x > -2$

$x > 4$

$2x > 3$

$x > \frac{3}{2}$

$$\underbrace{\hspace{15em}}_{x > 4}$$

2) $\log(x+3) + \log(x-1) = \log(5x+7)$

$$\log[(x+3) \cdot (x-1)] = \log(5x+7)$$

$$(x+3) \cdot (x-1) = 5x+7$$

$$x^2 - x + 3x - 3 - 5x - 7 = 0$$

$$x^2 - 3x - 10 = 0$$

$$x_{1,2} = \frac{-(-3) \pm \sqrt{(-3)^2 - 4 \cdot 1 \cdot (-10)}}{2 \cdot 1} = \frac{3 \pm \sqrt{9+40}}{2} = \frac{3 \pm \sqrt{49}}{2} = \frac{3 \pm 7}{2}$$

$$x_1 = \frac{3-7}{2} = -\frac{4}{2}$$

$$x_2 = \frac{3+7}{2} = \frac{10}{2}$$

$$x_1 = -2$$

$$x_2 = 5$$

uvjet kaže da mora biti: $x > 1$

⇓

pa je: $x = 5$ jedino rješenje

uvjeti:

$x+3 > 0$

$x-1 > 0$

$5x+7 > 0$

$x > -3$

$x > 1$

$5x > -7$

$x > -\frac{7}{5}$

$$\underbrace{\hspace{15em}}_{\text{uvijet je } x > 1}$$

$$3) \quad \log(x-2) + \log(x+3) = \log(4x+2)$$

$$4) \quad \log x + \log(x+2) = \log(7x-6)$$



10.

$$1.) \frac{3}{\log x + 2} = 2 - \log x$$

$$\log x = t$$

$$\frac{3}{t+2} = 2-t \quad / \cdot (t+2)$$

$$3 = (2-t)(t+2)$$

$$3 = 2^2 - t^2$$

$$3 = 4 - t^2$$

$$3 - 4 = -t^2$$

$$-1 = -t^2$$

$$t^2 = 1 \quad / \sqrt{\quad}$$

$$t = \pm \sqrt{1}$$

$$t_1 = -1 \quad t_2 = 1$$

$$\log x = t$$

$$\log x = -1$$

$$x = 10^{-1}$$

$$x = \frac{1}{10}$$

$$\log x = 1$$

$$x = 10^1$$

$$x = 10$$

$$\text{uvjet: } x \neq \frac{1}{100}$$

$$\text{pa su rješenja: } x_1 = \frac{1}{10} \text{ i } x_2 = 10$$

uvjet:

$$\log x + 2 \neq 0$$

$$\log x \neq -2$$

$$x \neq 10^{-2}$$

$$x \neq \frac{1}{100}$$



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