



A_1 #1: $x^2 + 1$ *graf*

#2: $\text{LOG}(x^2 + 1, 2)$

A_{2a} #3: $\text{LOG}(3, 10) + \text{LOG}(x - 2, 10) = \frac{1}{2}$

#4: $\text{SOLVE}\left(\text{LOG}(3, 10) + \text{LOG}(x - 2, 10) = \frac{1}{2}, x\right)$

#5: $x = 3.054092553$

A_{2b} #6: $3^x + 9^x = 90$

#7: $\text{SOLVE}(3^x + 9^x = 90, x)$

#8: $x = 2$

A_3 #9: $\left|3^{x-1} - 1\right| = 2$ *еначва*

#10: $\text{SOLVE}\left(\left|3^{x-1} - 1\right| = 2, x\right)$

#11: $x = 2$

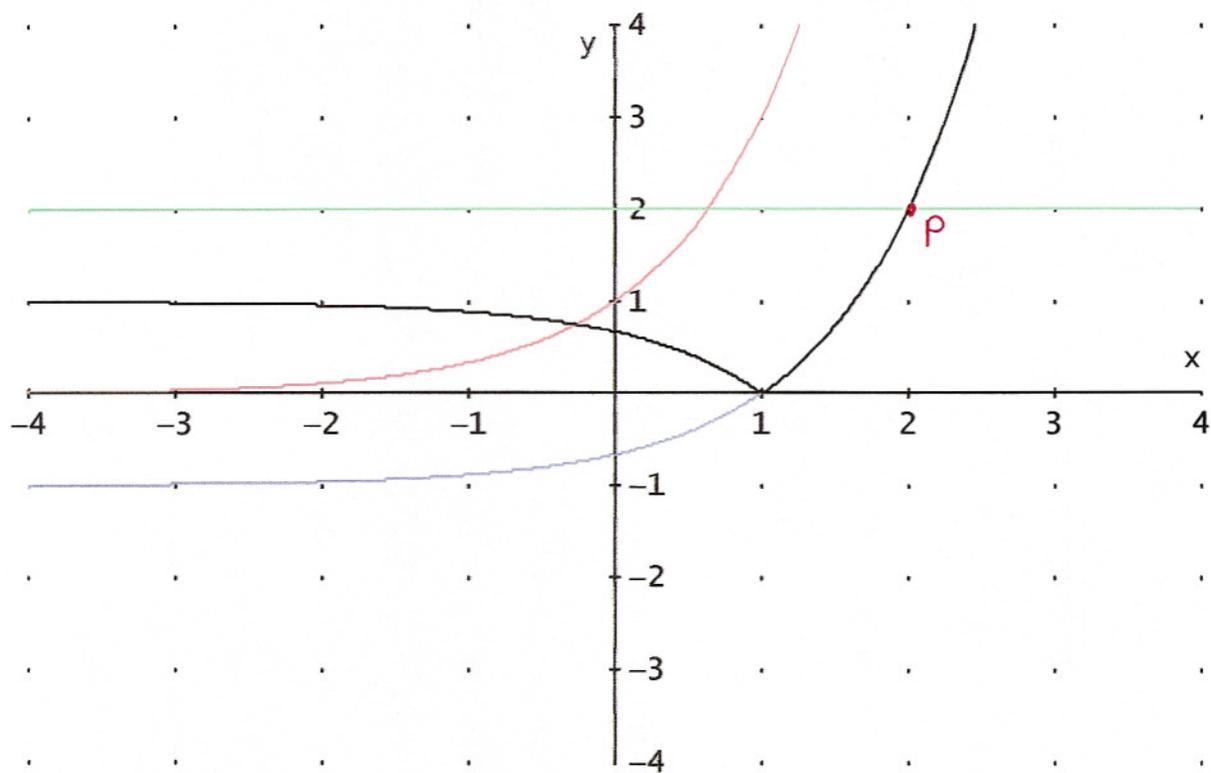
#12: 3^x *graf*

#13: $3^{x-1} - 1$

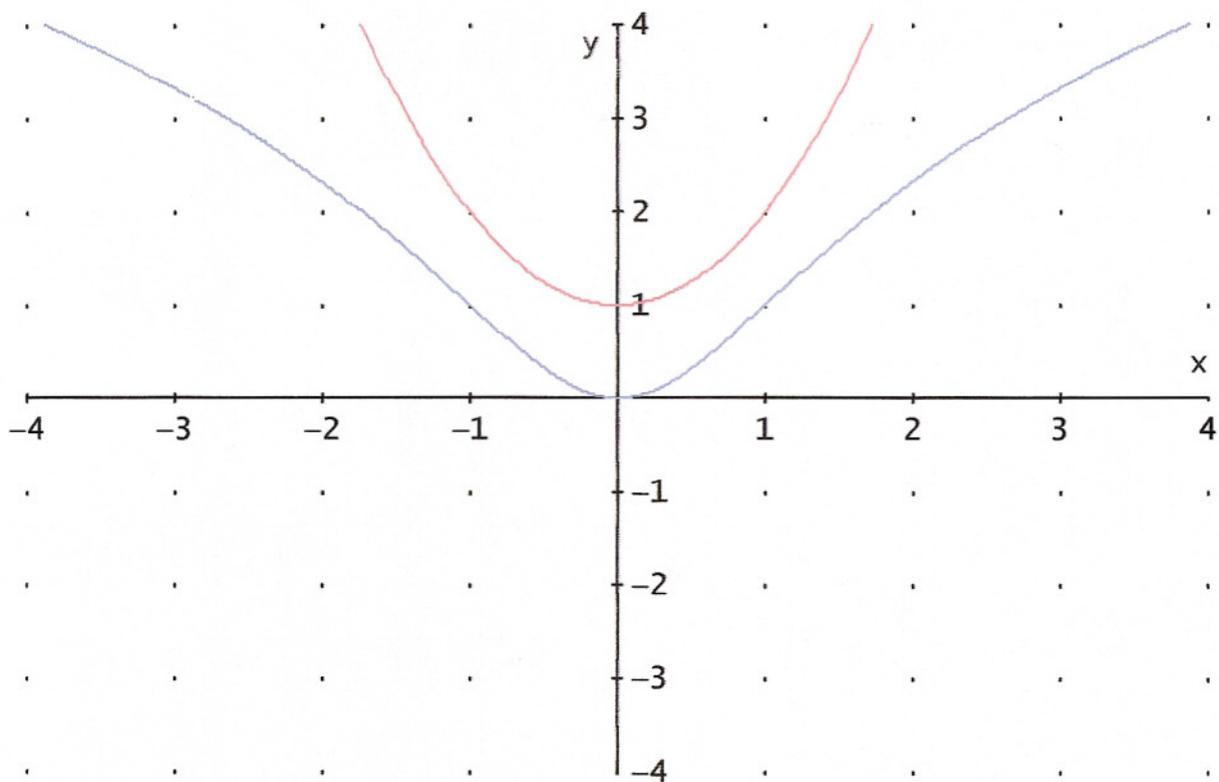
#14: $\left|3^{x-1} - 1\right|$

#15: $y = 2$

A₃ - graf



A₁ - graf



A

30 1) Narišite graf funkcije $f(x) = \log(x^2 + 1)$ (s posredno funkcijo) in opišite lastnosti!

12 2) Rešite enačbe:

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

18 b) $3^x + 9^x = 90$

40 3) Dana je funkcija : $f(x) = |3^{x-1} - 1|$

Narišite graf. Nato izračunajte presečišče grafa s premico $y = 2$. Presečišče označite na grafu!

B

30 1) Dana je funkcija $f(x) = 3 \cdot 2^{-x+1} - 1$.
Izračunajte presečišči s koordinatnima osema in narišite graf!

18 2) Rešite enačbe:

a) $\log_9 x + 4 \log_x 3 = 3$

12 b) $5^{x^2 - 8x + 12} = 1$

40 3) Dana je funkcija $g(x) = | \log_{\frac{1}{2}}(x - 2) |$

Narišite graf. Nato izračunajte presečišče grafa s premico $y = 2$. Presečišče označite na grafu!

B₁ #1: $3 \cdot 2^{-x+1} - 1$ graf

B₁ #2: $3 \cdot 2^{-x+1} - 1 = 0$ ručička

#3: SOLVE($3 \cdot 2^{-x+1} - 1 = 0, x$)

#4: SOLVE(SOLVE($3 \cdot 2^{-x+1} - 1 = 0, x$), x, Real)

#5: $x = \frac{\text{LN}(3)}{\text{LN}(2)} + 1$

#6: $x = 2.584962500$

#7: $y = -1$ (za graf B₁)

B_{2a} #8: $\text{LOG}(x, 9) + 4 \cdot \text{LOG}(3, x) = 3$ ručička

#9: SOLVE($\text{LOG}(x, 9) + 4 \cdot \text{LOG}(3, x) = 3, x, \text{Real}$)

#10: $x \cdot e^{\frac{8 \cdot \text{LN}(3)^2}{\text{LN}(x)}} = 729$

#11: $x \cdot e^{\frac{9.655591686}{\text{LN}(x)}} = 729$

(manji sam
pokušati na
ručičko osu)

B_{2b} #12: $\frac{x^2}{5} - 8 \cdot x + 12 = 1$ ručička

#13: SOLVE($\frac{x^2}{5} - 8 \cdot x + 12 = 1, x, \text{Real}$)

#14: $x = 6 \vee x = 2$

B₃ #15: $y = 2$ graf

#16: $\text{LOG}\left(x, \frac{1}{2}\right)$

#17: $\text{LOG}\left(x - 2, \frac{1}{2}\right)$

#18: $\left| \text{LOG}\left(x - 2, \frac{1}{2}\right) \right|$

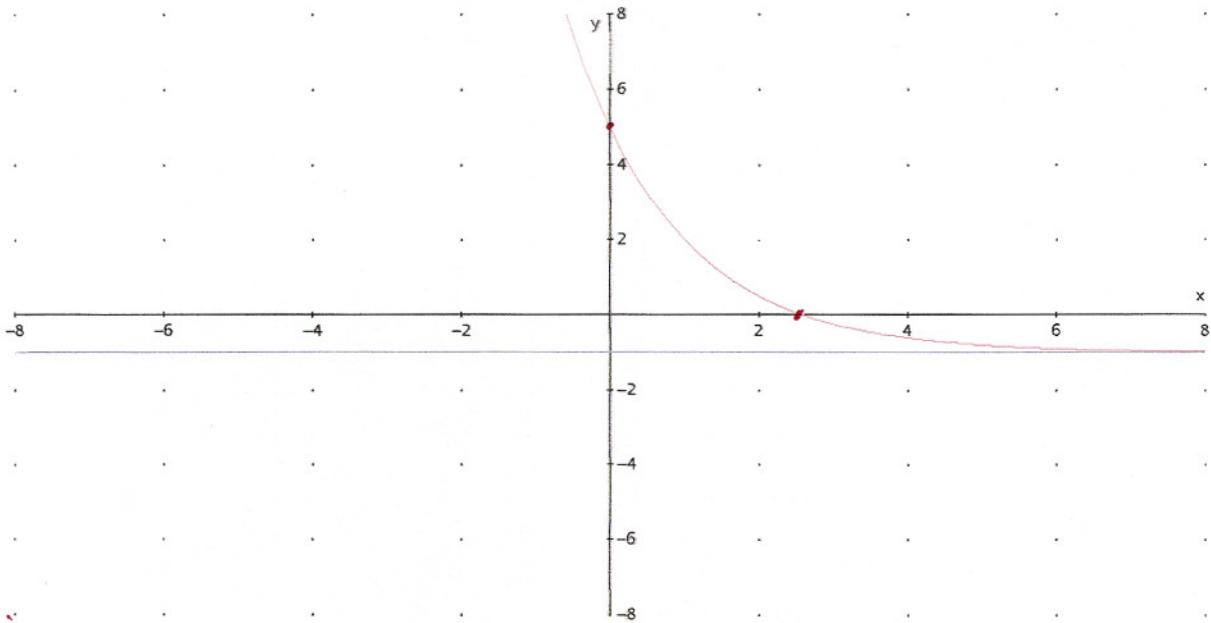
B₃ #19: $\left| \text{LOG}\left(x - 2, \frac{1}{2}\right) \right| = 2$

ručička

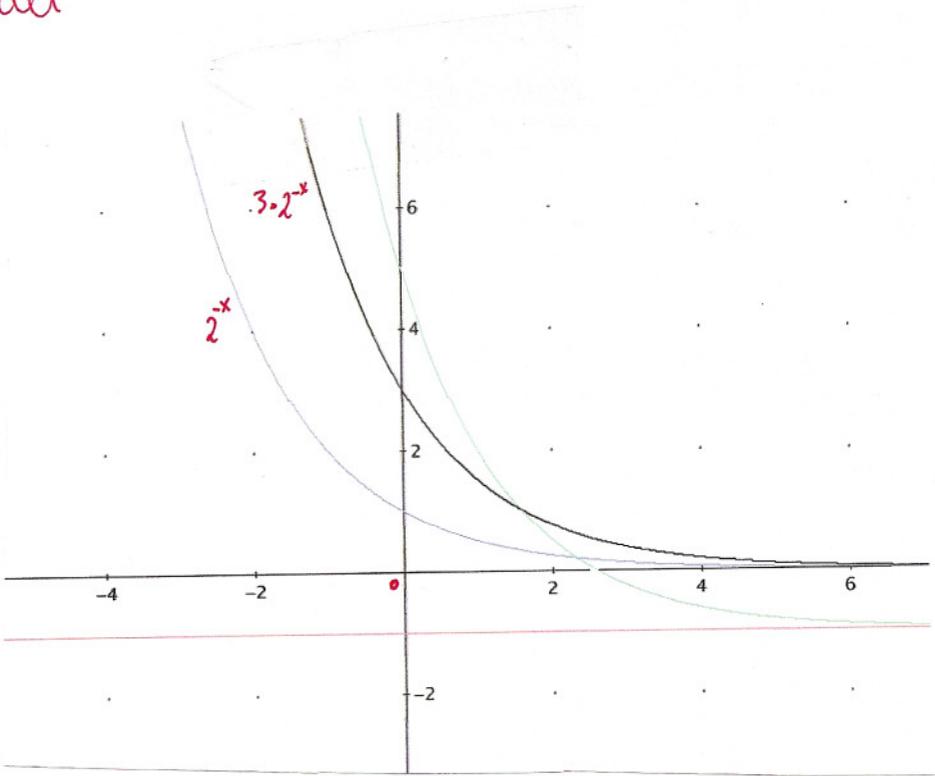
#20: SOLVE($\left| \text{LOG}\left(x - 2, \frac{1}{2}\right) \right| = 2, x, \text{Real}$)

#21: $x = \frac{9}{4} \vee x = 6$

B₁ graf



ali



B_3 - graf

