Nijdvine & uncuiusun a odunocuiusun: a b.... exponent (be IN 121...) a · a = a b+C a musim unit stoying ! 24 kPad Pr. 2.2 = 2 = 2 = 2 (ab) = (ac) = ab.c a = 1 " cordir na nathou je jedra" $(2^2)^4 = (2^4)^2 = 2^4$ $\sqrt[3]{2^3} = \sqrt[3]{8} = 2^{3/3} = 2$ 5/ac = a = 1 Coleficient abou sudjet odmocrin 20. Q: he reported to ? Jx Pr. 35-7 = -1 Exponencially funkce o rozlisijemp also připoelj: 04941 -pridpis: $y(x) = a^{x}$ ojska nsajimac isnusui Logarituide Cauka a>1 logax -pridpis 06061 4(x) = logg x logax n logaritures o Ethlools a r 8136 x " D= (0,10) acrtleis He=1R

Exponencially revailed (seejug 28800)

Pr.
$$3x-4$$
 $2x+1$ michinus

 $2^{3x-4} = (2^3)^{2x+1}$
 $2^{3x-4} = (2^3)^{2x+1}$
 $2^{3x-4} = 2^{3(2x+1)} = 2^{6x+3}$
 $3x-4 = 6x+3$
 $-7 = 3x$
 $x = -\frac{7}{3}$

Neorieis:

Pr.
$$5^{\times}.2^{\times} = 100^{\times}-1$$
 $100 = 10^{2}$
 $10^{\times}.5^{\times}.2^{\times} = 100^{\times}-1$ $10^{2}\times-2$ $100 = 10^{2}$

$$x = 2x - 2$$

$$2 = x$$

Privod Ko fundratidion vouvici: substituce

Pr.
$$4^{2x} - 6 \cdot 4^{x} + 8 = 0$$

Assume si: $4^{2x} (4^{x})^{2}$

substituce: $y = 4^{x}$
 $K = \frac{9}{4}(2, 13)$

Pr.
$$4^{2x} - 6 \cdot 4^{x} + 8 = 0$$

Noting si: $4^{2x} = (4^{x})^{2}$

Substitute: $4 = 4^{x} = 4$
 $4^{x_{1}} = 4 = 7$
 $4^{x_{2}} = 2$
 $2^{x_{2}} = 2 = 7$
 $2^{x_{2}} = 1 = 7$
 $2^{x_{2}} = 1$

Q: Co tedy & ison 2861, dy razul? - musing or each of fortat s logaritury a'= x <=> loga x = 9 Pr: 10 = 1000 & log1. 1000 = 3 Q: LEE 5 boganitury poctfat? loga (x.y) = logax + (oga y (1) $\log_a\left(\frac{x}{y}\right) = \log_a x - \log_a y$ (2) logax = u. logax Poen: loga 1 = 0 (II) Poen. loga ex= x loya a = 1 (I2) Pr rezmenu jie sporteny prifiled: log 2 3x-4 = log 8 2x+1 / vzorecia (3)

officed a object restant state of the state

3

poliboolulus & Glade 2x-4 = 8 2x+1 / log (" zlogariturijume obe stary vce") (3x-4). log 2 = (2x+1) log 8 = (2x+1) log 23 = 3(2x+1) log 2 Q: Pro jobs x us rovaico 3x-4 = 6x + 3small 3 -7 = 3xX = - 7/3 X+1>0 a x>0 , vzoraci (2) Pr. (og2(x+1) - log2 x = 1 c/ $\left|6\right|_{2}\left(\frac{X+1}{X}\right)=1$ (#2) X € (0, 400) log (x+1) = log_ 2 + zeusten $\frac{x+1}{x} = 2 \quad (x \neq 0)$ X+1= 2K => X=1 (N pointly 1 e 10,100)

Pr.
$$\log(x+5) - \log(x-1) = 1 - \log 2$$
 $\times 5 - 5$
 $\log \frac{x+5}{x-1} = \log 10 - \log 2$ $\times E(1, 4 \Rightarrow 5)$
 $\log \frac{x+5}{x-1} = \log \frac{10}{2}$
 $2 \times 45 = 5 \times -5$
 $2 \times 45 = 5 \times -5$
 $2 \times 45 = 5 \times -5$
 $3 \times -1 = 2 \times -1$

Pr.
$$\log \sqrt{x+4} = \log \sqrt{x-4} = \log 12 - \log 4$$

Pr. $\log \sqrt{x+4} = \log \sqrt{x-4} = \log 12 - \log 4$
 $\log \sqrt{x+4} = \log 3$
 \log

Enthoro toolo

-e= 7.9182 ...

- 17. STORET J. BANGAlli

e vzuitur jako limitus udvartuost jednottan Esstey pri rotain 100% dvolu, evytuje-li se truturu splaces

a oblodi

Mijne 1, tot a na 105005 se 100%

18th 100% 25th 3 rozdilum un 2 05 205, 5 2/006 cm 50%.

18th 50% 50% 225 f 400

A 1.5.15 = 2.25 f

1.25.1.25.1.25.1.25 = (1.25) = 2.44; 8c

```
Storen Worker poet adopt
Su = So (1+ P) 4/00 (%)
Ederly po 4 obelobich Pr. Na zack 46a voga vlotime 1000 000; CZK

ua 3 roly as barbount wat.
 poedtrees utilise local sarba ciai 110, unotoraci otolobi
                            je 1 vok.
Poece: minazijena dog
                        Q: Isker Existing hacle an abity by boach 1. 1044 ?
                            a un bouci 2. rola? a na bona: 10. volg?
  S= 50 (1+ 100) = 1000 000. (1.D1) = 1010 000 - CZK
                                           (profit + 10000 CZF)
Amio CZK
 S=So(1+ 100) = 1000000. (1.01) = 1020100; CFK
                                         (Profit+20 100 PEF)
 Sto = So (1+ 10) = 1000 000. (1.01) = 1104 622 - 125
                                        (puti++104622 17E)
                                        Pory storen mades >> jedenderly
                      Q: 198 ollo460
                                                                  Aroceat
                         vasim sporit, abscrown
                      cusala eludrosili an 2400 CZK?
Neznámon je user pocét sporicich (usp. whocree) období.
   S, = 2 000 000, CZK
  Sn = So (1+ 1) = So (0.01) 1 / log
Provici musique elogovituovat. apliquieme:
 log Sn = log So (4.01) (3) 4 (1)
log Sn = log so + wlog (4.01) dosadim Sn = 250
                                                                  Ballyla Ela
log 250 = log 50 + 4 log (4.01)
 log 2 + log 30 = log 30 + 4. log (0.01) => w = \frac{10g 2}{log (1.01)} = 70 let
```

Do finitus oborg a zuawluten linker

Q: late ruglus vosavifa ?

1. Dellas udon (juncuovate (werelogg))

3. Arguniat Germany vitist cer unla.

Pr. Urate Dalinider abov

$$Y(x) = \log \frac{3-x}{x^2-6} + e^{2x}$$

Cellour musium uchla+ pragie IR a (-2,-4) U(3,4), cor je samo viejune (-01-4) U (314).

$$P(x) = \frac{3\sqrt{x^2 + y^2}}{x - 2}$$

$$Y(x) = \sqrt{\log \frac{x}{2}}$$