Jesti krayce zpit or grandingtickým funkcim, boubuiten bucheme vistit Loudratichi unovnice

Pr. 2x2+5x-10<-x2-8

Riste gaficBy.

 $2x^{2}+5x-10 < -x^{2}-8$ $3x^{2}+5x-2 < 0 \rightarrow \text{normstime} \quad P_{\kappa_{112}} = \begin{bmatrix} x_{112}, 0 \end{bmatrix} = \begin{bmatrix} \frac{1}{3} \\ -2 \end{bmatrix}$

pozh mazina umestie obe probty, a porduciónst.

$$x_{1,2} = \frac{-5 \pm \sqrt{25 + 24}}{6} = \frac{1}{3}$$

vidiny, ze faglégi bodaoty jsou mensit mes mula pro x e (-2,1/3).

Explicit ni riseyi

- priponen si nulove body

$$3k^2 + 5x - 2 < 0$$
 $NB: -2, +\frac{1}{3}$

$$3(x^2 + \frac{5}{8}x - \frac{2}{3}) < 0$$

$$3(x-\frac{1}{3})(x+2)<0$$

$$3(x^{2} + \frac{5}{3}x - \frac{2}{3}) < 0$$

$$(4) \cdot \text{horeup})$$

$$(-2.16) (163140)$$

$$3(x - \frac{1}{3})(x + 2) < 0$$

$$(-2.16) (163140)$$

rozelad 49 Govenon cinitele 3

vyra z X+ 2 3 (x-1) (X+Z)

Tabella:

+
+
4

meline, & x incongle (-7,113) jecelsovi výrat Esporagi.

Shruuti: najdu nalove body, ngtrovin 1966/Ry a sledy; Chordai pignatury (+j. tuanea 89) vgrazu.

Pozor: + . +

Vod do prhynoma

Q: (o je to polynour?

Zugerme P(x), Q(x), L(x),...

La tasto pridávajme index:

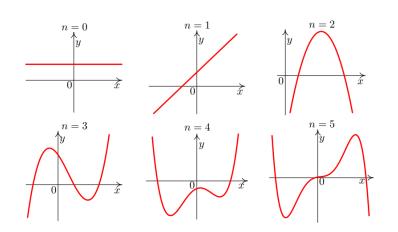
Pozy: Zasludui neta algebry: Polynom suprie m uns' probe-

in horam (vietur hourplexuich), 2- assobul loving pottsome joho

& forture.

Priteled to 8/4 duich polynoune:

Graf polynomu



Kubi ola funkce/nounice

Poza le risit explicitant, tar. (andonoug veore In Vietory uzorce pro babicle vovnice.

- pridois:

$$ax^3 + 5x^2 + cx + d$$

$$\begin{array}{c} x_{1} + x_{2} + x_{3} = -\frac{b}{a} \\ x_{1}x_{2} + x_{1}x_{3} + x_{2}x_{3} = \frac{c}{a} \\ x_{1}x_{2} + x_{3}x_{3} = -\frac{d}{a} \end{array}$$

$$(VV2)$$

Pr. ruste x3-9x2+8x+60=0

Casto le (pro jo drodu la 1 & ficility) jeden hoven ula'chout.

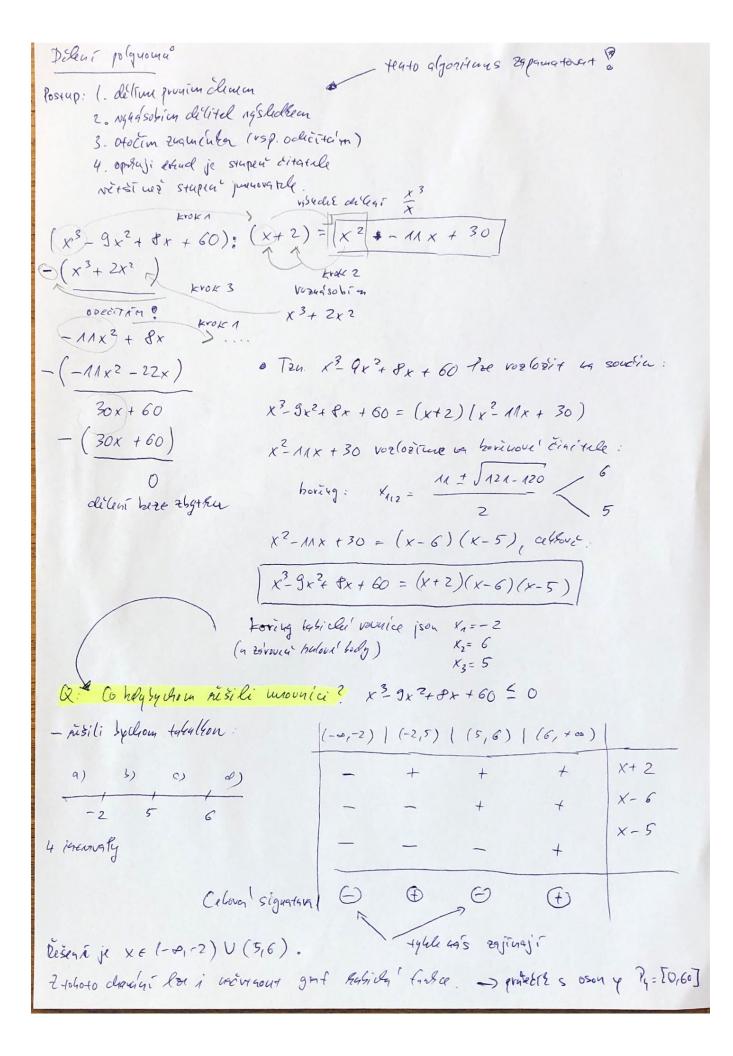
Hasing x=-2:

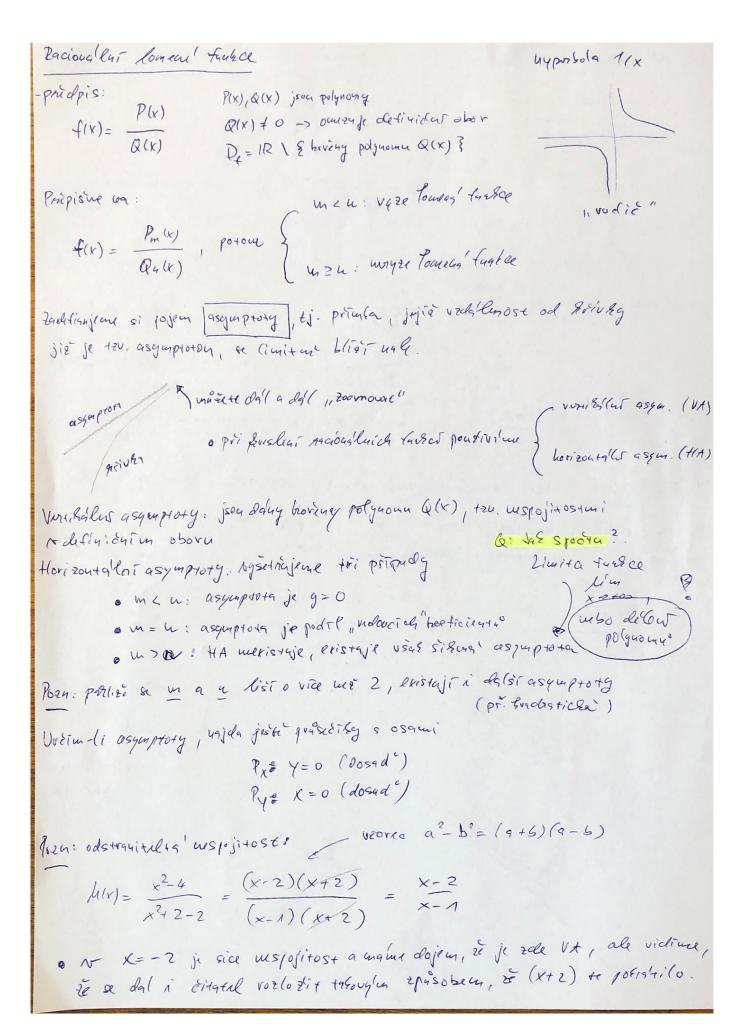
· Abychom wasti B(x), masime hatidron tuakci podelit (x+2).

(-2)3-9.(-2)2+8(-2)+60=0 V

moline, se le prépage eq: x3-9x2+ 8x +60 = (x+2) P2 (x)

11/500m 2, rada (kuds.)





```
Limavai lowes Garbece
  - specially pripad vaciousles louver face ,
             kdy P = P_1(x) q Q = Q_1(x)
                    f(x) = ax + b a cho (ji448 linglar (under)

and + cho (forstage)
  D_{\xi} = \mathbb{R} \setminus \{-\frac{d}{c}\}
0 \neq \hat{s} \neq \hat{c}
0 \neq \hat{s} \neq \hat{c}
0 \neq \hat{c} \neq \hat{c} \neq \hat{c}
0 \neq \hat{c} \neq \hat{c}
0 \neq \hat{c} \neq \hat{c}
0 \neq \hat{c} \neq \hat{c} \neq \hat{c}
0 \neq \hat{c} \neq \hat{c} \neq \hat{c}
0 \neq \hat{c} \neq \hat{c}
0 \neq \hat{c} \neq \hat{c} \neq \hat{c} \neq \hat{c}
0 \neq \hat{c} \neq \hat{c} \neq \hat{c} \neq \hat{c}
0 \neq \hat{c} \neq \hat{c} \neq \hat{c} \neq \hat{c} \neq \hat{c} \neq \hat{c}
0 \neq \hat{c} \neq 
  Y(x) = \frac{1}{x}
                                                                                                                      a NSimmite si, ze y=0 a x=0
                                                                                                                                                                    jeen asymptony -> prolingte to an prihled
                                                                                                                                                                                                     asquiplot a oclavoduite
                                                                                        S= C0,0]
                                                                                                                                                                        870: I. III. Luchage 

Eco: II. IVI Goodage
   Similary + war: y = ys + & - D 46 le 20 Egin? Polent polynoma.
                                          5 = [xs,4s]
  Asymptoty poéttes u, jet zer'm: VA ... réstin juenovatil = 0 (4: -d/c)
                                                                                                                                                                                HA ... podi "vedoucich" Eluno (tj. 9/c)
Pr. \quad Y = \frac{3x - 5}{x - 2}
                                                                                                                                                                                                              as you poots:
Dx=12/823
                                                                                                                                                                                                                     x = 2
     (3x-5): (x-2) = 3 + \frac{1}{x-2}
                                                                                                                                                                                                                      9= 3
                                                                                                                                                                                                                                                                                                                                                                                                        5
-(3\times-6)
                                                                                             S= [2,3]
                                                                                                Pagor og 24944960 P
    Pagestily = Py: x=0 => Pr = [0182]
                                                          Px: 4=0=> Px= [5/3,0]
```