x²-2x+3 g h-g'-g.h' Analysis Autoche 37/1.

X²+2x-3 h

Marcel Herd 7527440 - (2+3-2+2+4x2-4x-6x+6)-62(2x3+2+2-4x2-4x6x+6) (x2+2x-3/2 $\frac{2x^{3}+2x^{2}-70x+6-2x^{3}+2+^{2}-2x-6}{(x^{2}+2x-7)^{2}} = \frac{(x^{2}+2x-7)^{2}}{(x^{2}+2x-2)^{2}} = \frac{7. \text{ Ablentung}}{(x^{2}+2x-2)^{2}}$ $= \frac{(x^{2}+2x-2)^{2}}{(x^{2}+2x-2)^{2}} = \frac{(x^{2}+2x-2)^{2}-(x^{2}+2x^{2}+2x^{2}+2x^{2}+2x-2+2x+4)}{(x^{2}+2x-2)^{2}}$ $= x^{2}+44x^{2}-8x+4$ $= x^{2}+44x^{2}-8x+4$ (42-12x2) - (4x2-12x) - (4x2-12x2-8) (x2+72+-2)4 (8x5-72+437x4-48x3-64x2+96x+32x-48)-(2x5+48x4-32x3-48x4-744x3+96x)
(x2+2x-2)4 (8x5+20x4-48x3-64x2+78x-48)-(76x5-776x7+96x) (x2+2x-2)4 (x2+2x-2)4 7. Ableitung -8x8+10x4728x3-64x7+32x-48

```
-S+2+5 = 6 m(x) = 0 <=> 4(x) = 0 / Analysis Aufgabe 33/2
                                                                                                                                                                                                                                                                                                                                                  Marcel Hed 7527946
          Nolistella:
                                                                                                                                                                                                                                                                                                                           Abierto-gen: h.g-g.h
                                       -5x2+5=0 1+Sx2
                                                   x2=1
                                              47
                                                                                                                                                                                                                                                                                                                \frac{f(+3)\cdot(-70x)-(-5x^2+5)\cdot(3x^2)}{x^6}
= \frac{-70x^5+15x^4-15x^2}{x^6}
                                             4:-7
            12 Mustellen:= {-7; -73
                                                                                                                                                                                                                                                                                                                                        5x4-75+2 vereinfacht:= 5x2-75
                  Extrema:
                   f(x)=0
                                                                                                                                                                                                                                                      \frac{|2.4|^{\frac{1}{2}}}{x^{12}} \frac{(x^{6}) \cdot (zox^{3}-36x) - (5x^{4}-75x^{2}) \cdot (6x^{5})}{x^{72}}
                  5x2-75=0 1+15°
                                                                                                                                                                                                                                                                                          = \frac{26x^{9} - 30x^{7} - 30x^{9} + 30x^{7}}{x^{72}} = \frac{-70x^{9} + 60x^{7}}{x^{72}} = \frac{-70x^
                Sx? =75 (15
x? =3 (V
x_{1/2} = \pm \sqrt{3}
x_{1/2} = -\frac{70 \cdot (-\sqrt{3})^{3}}{3} \frac{3}{4} \frac{4(-\sqrt{12}) \cdot (-\sqrt{2} + 60x^{2})}{(-\sqrt{2} + 420x^{6}) - (72x^{4})} \cdot (-70x^{9} + 60x^{2})
-\frac{30 \cdot (\sqrt{3})^{2} + 60}{30} = \frac{30}{30}
= -\frac{30 + 60}{3 \cdot 3 \cdot \sqrt{3}} \frac{9 \cdot (-\sqrt{3})}{4(-\sqrt{3})^{2}} = \frac{30x^{26} + 420x^{48} + 170x^{26} - 720x^{48}}{x^{24}}
= \frac{30 + 60}{3 \cdot 3 \cdot \sqrt{3}} \frac{9(-\sqrt{3})}{4(-\sqrt{3})^{2}} = \frac{30x^{26} - 360x^{48}}{x^{24}} = \frac{30x^{26} - 360x^{48}}{x^{24}} = \frac{30x^{26} - 360x^{48}}{x^{24}} = \frac{30x^{26} - 30x^{460}}{x^{24}} = \frac{30x^{26} -
       also HodginAt
```

30. (-16)6 = 186-300 = -170 (0 also links Dellets

(-16)6 Wendepunkt

Zusahnerfassung:

1645fellen. 12:= {1;-13

Extrema: 10 x = 53 ->Tiefpontl

Wedeporthe XIn=±V6 -> (ints-pothts Wedeporth