1.2. Brille Wasse m 10 (x) = Vax - 2 x 2 acm, a20 a) Defl= {x1x6R nx20} lin fa (x) = - 00 (lin fa (x) = 0) 0 = Yex - = x2 x = 0 x = \(\frac{1}{2} = \frac{1}{2} + a \) 61 fa' (x) = 2 vax? -x fa'(x) = -a -1 1" (= - 3 2 6 => HP (= 3/2c | 3 3/4c2) Ox6 berroe for (x)=0 = 1 a= 4x3 in fo (x) Y= 3 xe 2 wp fa"(x)=0 n.L. (- a = 1 wich/mpt., c/a) arcackso =) & gill beine Windepentale. c/ PINIfacail fa'(1)=1 = = = 16 t: y= x-2,5 -, Odt - Bruch existent. fa'(1)=-1 miss my., da as C. dl Die feracle hist Tangerte an 62 in P(410), alun L(4) = 0 and f2 (4) = -3

Absterned de iller Pythogoras a(x)= V(x-1)2 - (fa(x))2 04x42 $el'(x) = \frac{x(-5\sqrt{2x} + 2x^2 + 4y)}{2\sqrt{(x-n)^2 + (f_2(x))^2}}$ (Kellennyel) or'(x)=0 =1 x=0 x= 9364 x= 1,550 01(0)=1 01(0,504)=1,012 0(1,550)20,785 => Kin Unglich: 0(12) = 1 > 0,785 P(1,55 10,561 85 (x) = Y2 (-x) - = (-x)2 $= \sqrt{-2} \times \sqrt{-2} \times 2 \times 4 = 0$ \$ (x)= - V-2x + = x ≥ x ≤ 0 lim /2'(x) = 00 lim 6 (x1 = -00 = 1 Beich Graphen son weigen sich an elei y-Achse : Sie memalen sentrecht in den Orspreny. Die y- Masse ist also jumeinsome Tanjente. g / g (x1 = ax 3 +bx2+cx+0/ g(x)=3ax2+26x+c Probe graphisch g (x) = 0,425x 3-2,175x -2,649