Hofah 2 h= 15 a) but = f(x0+4) - f(x0) = e(1+4)2 - e 6-12-10-14 E - 12-10-14 = 1-10-7 $D_1 f(1) = \frac{(1+\sqrt{\frac{1}{2}} \cdot n^{-1})^2}{(1+\sqrt{\frac{1}{2}} \cdot n^{-1})^2} = D_1 f(1) = 5.4366$ | Daf(x0,4) - f'(x0) | = |f''(x0)| . L = 4.0 . 1 10-14 = 3.8442 10-7 1) b,f = en((2+h)2) - en(4) 1= 12.10 4 2n4 = 14.10 14. ln + + = 2.10 + lent => b1(0)= en ((2+14.10-14 en 4)2) - en 4 = 1.0000 10,f(xo,h)-f'(x) = \f"(xo) \ = \f h = 3.8871.10-8 Plots: r= 2 eps | | f(ko)| , d= |f"(xo)| L a) r= 2 eps e = 10 e , d = 2e h 6) 10 2:45 luy d= 1/4



