Bel Breeden frence  $f(x) = (x+2) 2^{1-x}$ LS 2014/2015 Bridge kest 0) f men' sule am lide [ft x) of the) 2) limby o brignish bodard Df lin : (x+2) l' = lin (x+2) = l = lin 2×12 0=> formal asymptotee

x > 100 => 10+00 y=0 lim (x+2) 2 = (lim (x+2) (lim 21x) = (-00) · (+00) = -00  $P_y = \begin{bmatrix} 0,221 \\ 33 \end{bmatrix}, P_x: (x+2)e^{-x} = 0$  x+2=0 5.4  $P_x = \begin{bmatrix} -2/0 \end{bmatrix}$ Asymptohy 3) pruseuly A osomi 4) Asymplohy 2-00; lim f(x) = lim x+2 l<sup>1-x</sup> 2 lim x+4 (lim 2= x+2) (lim 2= x+2) (lim 2= x+2)  $= \left(\lim_{x \to -\infty} \frac{\chi(1+\frac{1}{2})}{\chi}\right) \cdot \left(\lim_{x \to -\infty} 2^{1-\chi}\right) = \int \cdot (+\infty) = +\infty$   $\Rightarrow f \text{ neme a symbolic } 0 - \infty$ 

5) some derivore f(x) = 2 + (x+2) 2: (1) = = (-x-1) L Del = R E00;1) [9;400] +(x)>0 +(x)<0 + rode + Ilesa f mei o bode xo=-1 7) lokoli ecking lokoln' amoximum f(-1) = 2=2,7=7.4 2) druha deriva f(x) = -e1-x+(x-1)e1-F1=R = et (-1+x+1) = et x 9) Bonoernoel/ konsovnosk  $(-\infty;0)(0;+\infty)$ facol faco tie horkom tje korverni OFDer 1 Oje inblem book

10) grob 11) oba hodnol H=G0, 7.4 12) globoln/ extery fmå globoln morimum v bode x= -1 f(-1) = 7.4