B-9 Jaganne Nez. f=2(K-5)2+3(K2-4)2 a) Placette craes-no v-leep u bonneerneer bleer greare-e op-4 Croas. T-ren paccieamprebaccie op-10 onprépendros co $\frac{1}{2}\frac{1}{2}(x) = 4(x_1 - 5) = 0$ $\frac{\partial f(x)}{\partial x} = 6(x_2 - 4) = 0$ Epiecembereseas cmaes. T-ka pabrea = (5; 4) re f(5;4)=0Onpepeneems skompaneger, loner our ecos Harperer 4. n. 200 nopapha $\frac{\partial^{2}f}{\partial x_{1}x_{2}} = 0 ; \frac{\partial^{2}f}{\partial x_{2}^{2}} = 4 ; \frac{\partial^{2}f}{\partial x_{2}^{2}} = 6$ Brucereuce zuarence 4.n. 200 nopagna 6 cmars. T-lee (5;4) AC-B= 24 > 0 C= 37 = 6 => A>0 => BT-ke (5;4) unecemed with f(5;4) = 0B = 7 + = 0 b) Trobeguens q-10 na bonnegenoers bornegmoems P- & sibraemed boungknoer buerz

B-B Daganne N13 f = 2k1 + 3k2 + ks + K1 K2 + K1 K3 - K2 K3 - 5K1 + K2 + K3 a) Haremer concres 5- keg u borrecerems buen quarence q- 10 2f(x) = 4 Ke + Ka + K3 - 5 = 0 $\frac{\partial f(x)}{\partial x_2} = 6 x_2 + x_1 - x_3 + l = 0$ $\frac{\partial f(x)}{\partial k_3} = \lambda k_3 + k_1 - k_2 + l = 0$ Permere creemereef: $P X_1 = \frac{65}{34}$ 4 K1 + K2 + K3 - 5=0 Gagreou. $x_1 + 6x_1 - x_3 + \ell = 0 = 0$ $x_2 = -\frac{27}{34}$ $x_3 = -\frac{68}{34}$ $X_1 - X_2 + \lambda X_3 + l = 0$ f = - 6, PO2 Dopepenens thanfelleger, cere on eess. $M(X_1, X_2, X_3) = \begin{pmatrix} 4 & 1 & 1 \\ 1 & 6 & -1 \\ 1 & -1 & 2 \end{pmatrix}$

$$M_1(M) = 4 > 0$$
 $M_2(M) = 4 > 0$ $M_3(M) = 34 >$

6) OP- of bornegen. bueez