1-a) Z1= 0+JD Z2=1+J Z 23=5-33 Z1=61802 Z2=1,414/4502 Z3=5,831/-20,869 Zeg= 6+8J. 2 ou 10 153, 10 1 b) 1x=1 12, 71-113, D. A i= 1271-6° 10/53,100 VI=ZI.i= 10190°. 12,7/113,12°= 127/-113,10°V V2=Z2: i= 1,41410°, 127/103-17-961-68,12V V3=23.1=5,831-3094, 1071110,10= 74,05/14099V Po= J. 1272 (92= 1.12,7 -) (D. = D. D.F Ra= 161,29W 102= 161,29 VAR 1013 612 PNARA (98= 3. J27 B= 5. J272-93 = 483,87 VARL P3= 806,45 N

