```
Caeme 4.
    11.3.5 7 = x2y2 Mo(2;2), Ax = 0,2, Ay=0,1.
    4= 1, yo=1 2= 3x2+xy-y2+1, Ma(2;1), xx=0, 6y=0,2
    Xo+AX=2,1 Go+AG=1,2
    2 (Mo) = 7 (2:1) = 3-22+2.1-12+1=14
    Z(X0+AX;40)= Z(2,1; 1)= 3.23+ 21.10 1-12+1-13,23+1,1-15,33
    Z(xo; yo+ by) = Z(2, 1,2)=3.22+2.1,2-1,22+1=13,96
    2(to+bx; 90+45)= 17(2,1; 1,2)=3.2,12,2,1.1.2-1,22+1= 15,31
  1.1.33. 2 = x2/2 /x-4/2, Mo(2.h) Ax = -0,2 Ay =0,1
   Xo = 2; 9= 2, AX+40= 1.8 90+19=2,1
  2(X0 40) = 2(Mo) = 2(2;2) = 16-1
2(Xo+1) x: yo)=2(1,8:2) - 1,00 30 95 98
2(X0 MMK; y01/5y) = 2(2;2,1) = 1,00056721
2 (Ko+AX; go+Ag) - 2(1,8; 2,1) = 1,00633874
AX7=7(X0+AX; 90)-7(X0; 40)-1,00309598-1=0,03
Ay 2 = 2(Xo, yo + Ay) - 2(Xo, yo) = 0,0006.
12 = 2( X0+15x; y0+04) - 2(x0; 90) = 0,0063.
```

```
1.1.34
   2= (x2+92)2, Mo(1,1), DX=-0,1, DY=-0,1
  Xo = 1, yo=1
 Xo HAX= 0,9 40+89=99.
   Z (Mo) = Z(1:1) = 4
  2(x0+xx; y0)= 2(0,9;1)=4,04.
  2 (xo; yo+sy)= 2(1:0,9) = 4,09.
  7 (x0+sx; y0+sg1=2(0,9:0,9)=4.
1x2-2(x0+10);40)-2(x0;90)=0,4.
19 2 = 2(X6; 90x59)=2(X0 y0)=0,4.
12 = 2 ( KO+AX; YOHSY) = 2 (Xo: 90) - 0.
 1.1,36. 2-3x2+xy-y2+1; Ho(2:1), sx=0,01, Ay=0,02
 Xo=2; 40=1
 No+&x= 2,01 yotys= 1,02.
 7/40)= 2(7;1) = 14.
7 (X0+18); 90+48) = 2(2,01; 1,02)-14,1301.
18=7 (x0+AX; 90+184) -2/x0;40)=0,1301
```

```
1.1.3.7 2= x2-x9+g2, Ho(2;1) H.(2,1;1,2).
   to=2 40=1
   X0 +Ax = 2,1 90+ A 4= 1,2
  12 = 2 (H1) - 2/H0)
   Z(M1) = (2,1)2 -2,1.1,2+1,2= 3,33
   2/No)= 22-2. 1+12=3
  12-3,33-3=0,33
 1,1.3 8.
  2 = 19 (x2+42) No(2;1) Mi(21:0.9)
 \Delta t = 2(H_1) - 21H_0) = lg(2,1^40,5^2) - lg(2^4,1^2) = lg 1,044.

4.1. 3.13. V = x^4 \cos^2 y - y^2 \sin^3 x^5
 VX = (x 4002 y - y 25113 x 5)x = 4x3 cos 3y - 154 x 511 2 5001
Ug= (x" cos2y -y2sin3x5)y = -2cos gsinyx -4y3in3x5 =
 = -SIN 29 x - 49351n 3x5
113.14 7= x2 cos 2xy - 2x2 y sin xy - y2 cos (x+y)
 2'y = -2x2sin 2xy -2ysin (x+y)-92 col(x+y)
1.1.3.15. U= x91(xy) +2 x9
Ux = 4x = 1 + 2x 2-1 4 2 + 7 + 1 1 1 1 2
Uy = x 9/nx +x2. 2 9+2 x9 mx
```

1.1. 3.19. 1,042,03 F(X:91= X8, X= 1.04; 1= 2.03. Xo=1 90=2 F(1;2)=1 Ax = 0,04 Ay = 0,03. fx = (x9) = y x 4-1 E'u = x5. Inx fx=(1;2) = 2.12-1 Fy (1:2)= 12/11-0 = (1,04/2.01)= f(1:2)+fx(1:2)-18 +fy/1:2)-14-1,08 11.3.20 5 (4.04)2+ (3,01)2 f 18; 41 = 5x2 + 92, x=1,04; 9 = 3,0) Xo = 1 90=3 f(1,3)= Jo 1x=0,04 sy=901 $f_{x}^{2} (5x^{2} + y^{2})_{x}^{2} = \frac{x}{5x^{2} + y^{2}}, f_{y}^{2} (5x^{2} + y^{2})_{y}^{2} = 5x^{2} + y^{2}$ Fa(4:3) = 350 FF (113)= 350 f(1,03;3,01) = 510 + 510 00,011 + 310 .0,01 = 3,186

1.1.3.21. SIN 28°. 0861° F(x;y) = SIN x. 0089 $X_0 = 30^{\circ} = \frac{1}{6}$ $S_0 = 60^{\circ} = \frac{1}{3}$ $S_0 = 30^{\circ} = \frac{1}{6}$ $S_0 = 60^{\circ} = \frac{1}{3}$ $S_0 =$