```
113-21
(2) \frac{d\xi}{dt} = \frac{3x}{3\xi} \cdot \frac{dx}{dt} + \frac{3y}{3\xi} \frac{dy}{dt}
(4) \frac{dy}{dt} = \frac{\partial y}{\partial x} \frac{dx}{dt} + \frac{\partial y}{\partial t} \frac{dy}{dt} + \frac{\partial y}{\partial z} \frac{dz}{dt}
= \frac{\partial f}{\partial x} + \frac{\partial f}{\partial x} \frac{f}{dt} + \frac{\partial f}{\partial z} \frac{dy}{dt} + \frac{\partial y}{\partial z} \frac{dz}{dt}
 113.22
 (3) = $ 2x+y= 11 .: 2= 14.
 \frac{\partial z}{\partial x} = \frac{\partial z}{\partial u} \frac{\partial u}{\partial x} = 2 \ln^{4}(\ln u + 1) = 2 \left( 2x + y \right)^{x + y} \left( \ln u + 1 \right) = \frac{\partial z}{\partial x} = \frac{\partial z}{\partial u} \frac{\partial u}{\partial x} = 2 \ln^{4}(\ln u + 1) = (2x + y)^{x + y} \left( \ln (2x + y) + 1 \right).
  (4) x_{3}=u .. z=f(x_{1}u)=x_{4}
  3x = 3x + 3t 3x = n xn + 1 xn | h)
  3 x-y2-1 2 = y+(11), 11= 11(x,y).
                                                                             2= 44= g(4,4)
  1 - 3 4 = +(x2 y2) . 2 (1 = (x,y)
  113.23.
 3y = 3x(xt) +33+ = f(\frac{1}{2}) + \frac{1}{2}.f(\frac{1}{2})
                                                                   . BYN 62 5 - 92 A2
```

```
= 3+ 3+ -5+ 3+ sr
 32 3+ 3ts + 3+ 3tsr = + 3+ + + 2+sr
 32 = 3+ 3th = ts 3th
    113.24
   (1) = = = = = y = x + 1x-y)
   3= 3= + 3+ 3+ 3+ - +(x-y) = +1y+(x-y)
 2. \frac{1}{\sqrt{3}} + \frac{1}{9} = \frac{2y+(ax-y)}{2y+(ax-y)} = \frac{1}{9} + \fra
34 = 34 - 34 3x = XK. 34. - X
 シリー Xx 3t - 1 (2元 + 43元)
                                                                                                                                         + XM (37 + N34)
                                                                                                                             = KXK = KU.
 113.15.
  X= X(1,10) A= 3x - 3x + 3x 3x A= 12x p. X= 1 (2) p. X= 1 (2) p.
```

```
30 30 30 30 30 king
  31 31 3x 31 670. A=1210.
  \frac{3r}{90} = \frac{3x}{90} \frac{3x}{3x} + \frac{30}{20} \frac{3x}{34} = \frac{3x}{90} (000 + \frac{3x}{90}) \sin \theta
    30 3x 30 3x 30 3y 30 = 3x king + k 3n mb.
    5. gn 3r = - 1 30
         113.24.
            111 35 35 35 35 30 35 30 35 Xth.
         \frac{3\lambda}{35} = \frac{3n}{95} \frac{3n}{3n} + \frac{3n}{95} \frac{3n}{9n} = \frac{x_1^2 n_2}{3} \frac{3n}{95} + \frac{x_1^2 n_2}{3} \frac{3n}{95} - 
            17 95 35 9n 9x 2n 9x 7x 9x 1 35 1 35
\frac{x_1^2}{y_1^2} = \frac{y_1^2}{y_2^2} = \frac{y_1^2}{y_1^2} = \frac{y_1^2}{y_2^2} = \frac{y_1^2}{y_1^2} = \frac{y_1^2}{y_2^2} = \frac{y_1^2}{y_1^2} = \frac{y_1^2}{y_2^2} = \frac{y_1^2}{y_1^2} = \frac{y_1^2}{y_2^2} = \frac{y_1^2}{y
  \frac{\partial x}{\partial x} = \frac{\partial y}{\partial x} + \frac{\partial y}{\partial x} +
```

(²)