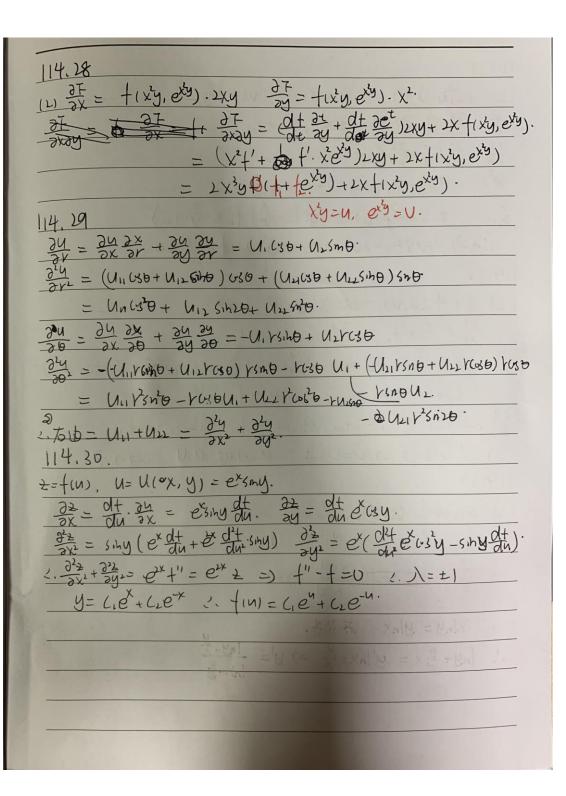
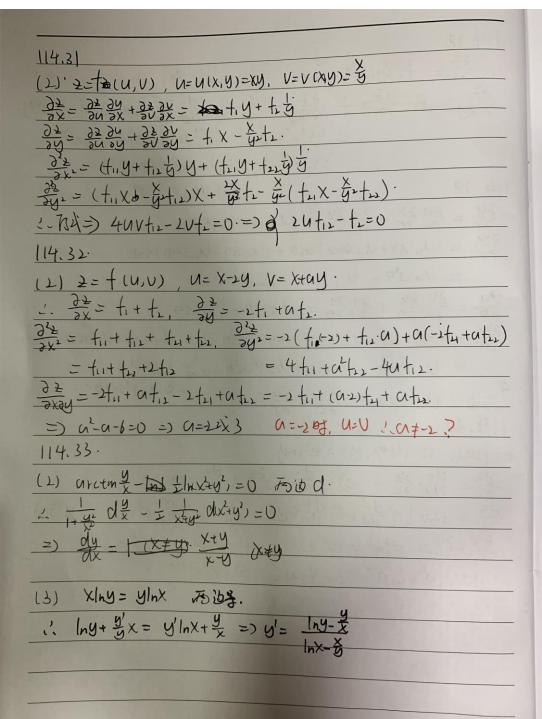
```
114.2)
         (1) 3 \( \frac{1}{2} = \frac{1}{2}(x, u) \), \( \text{$\sigma} = \text{$\text{$\text{$\frac{1}{2}}}} \)
       1. 32 = 3x + 3t. 3y = 1. + 1. y
          35 = 3x + 3m 3x + (3x + 3t 3x) g
            = firt fing + fing + fing = firt gfirt ting = fi
     3/2 = - ( 3t2 dy x - 2x t2) = 2x t2+ ot22 y+
      (3) · 3 Z=+(4), U=x3y2= U(x,y)
              1. 8x 3x = dt 3x = 4, 7x.
       \frac{\partial^{2} x}{\partial y} = \frac{1}{2} \frac{2y}{2} = \frac{4y^{2} + 2y^{2}}{4y^{2}} = \frac{4y^{
     3x2y = 4xy +"
     (4) 2= +(u, v, w), u= xty, V= xy, w= &.
     3= 3+,+y+++++, 3=+,+x+-- Gits.
   歌= き(たい+りたい+らたい)+り(たい+りたい+らたい)+ら(たい+りかい+らたい)
                             = f11+4t22+ ot13+24t12+ ot13+2t23
22 = + +x+12 + - x+13 + + + y (+1+x+12 - x+13) - x+1
                                                                                                   + 5 (+31+x+32. 52+33)
                               = +11+ xy+22+-$ +33+ xxy)+12+ $ - $ )+13 + $ + +2 - git3.
```





115.33
(4) らか(スタ) ーかどー120 あはは・
(-) xy (xdy+ydx) - y ydx-&+ixdy = 0 X=0= y=e.
or to the state of
=) (= edx-olx+edy=0=) dx x=0= e(1-e).
115,34
(2) $e^{2} - xy = 0$ $\frac{\partial^{2}}{\partial x} = -\frac{Fx}{F^{2}} = \frac{y^{2}}{e^{2} + xy} = \frac{y^{2}}{xy(2+)} = \frac{z}{x(2-1)}$
2= - Fy = Xt = X
(4) Xty+2-2=0 3000.
2xdy + 2xdx+2ydy - 22d2 - 2 d2 = - 2 dx - 2 dy +1
$\Rightarrow d = -\frac{x}{2} dx - \frac{y}{2} dy$