6.(1)当为+y20时、f(x,y)不存在:不连续 $f(x,y) = \frac{r^2 \omega s \theta s \tilde{n} \theta}{|r|} = |r| \omega s \theta s \tilde{n} \theta = f(g(r))$: lim f(x,y) = lim g(r)=0=f(0,0) 二连续

8. 波x=tcoso, y=tsinの

 $f(x,y) = t^3 \cos^2\theta \sin\theta$: $\lim_{t\to 0} f(t\cos\theta, t\sin\theta) = 0 = f(n,0)$ 当 y=x²科, $f(x,y) = \frac{1}{2}$, $f(0,0) \neq \frac{1}{2}$::f(x,y) たい。の) 不定係

5.3A

1. (3).
$$\frac{\partial^2}{\partial x} = \frac{1}{1+x^2-2xy^2+y^4}$$

2.(1) $f_{x}(x,y) = 1 + \frac{y-1}{2\sqrt{y_{x-x^{2}}}} - f_{x}(x,1) = 1$