2011-2012第二期中期参考考案

 $-(\frac{3}{5},-\frac{4}{5}); \underline{52}; \underline{51}; \underline{51}; \underline{51}; \underline{51}; \underline{51}; \underline{52}; \underline{51}; \underline{51};$ 

二. A, A, D, C, D 三. 1. 数=fx+ft数; Fx+F或+Ft故=0解值 = Ftfx-Fxft (4分) (4分)

2. 原式=  $\iint (x^2 + y^2)^2 dv = \int_0^{2\pi} d\theta \int_0^{\pi} e^{-\theta} d\theta \int_0^{\pi} e^{-\theta} d\theta = \frac{\pi}{28}$  (1分)

型.1.(1) lim f(x,y)=f(0,0) 故美人  $f_{x}(0,0)=\lim_{x\to 0} \frac{f(x,0)-f(0,0)}{x} = \lim_{x\to 0} \frac{x^{3}+o(x^{3})}{x} = 0$ [司程 fy(0,0)=0. (3分)

(3)  $\lim_{N \to \infty} \frac{\int (x,y) - \int (0,0) x - \int y(0,0) y}{\sqrt{x^2 + y^2}} = \lim_{N \to \infty} \left[ \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} \right] = 0$   $\lim_{N \to \infty} \frac{\int (x,y) - \int (0,0) - \int x(0,0) x - \int y(0,0) y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$   $\lim_{N \to \infty} \frac{x}{\sqrt{x^2 + y^2}} x^2 + \frac{y}{\sqrt{x^2 + y^2}} = 0$ 

2. ds=JHZz+Zy=JIdxdy , D: 2x2+y2ER2 (2分) :A= SJI+Zz+Zy dxdy=JIJ(dxdy=JIA(D)=TR2 (3分)

$$\frac{y}{\sqrt{y^{P}}} \quad V(x,y) = \int_{0}^{x} dx \int_{0}^{y} dy \int_{0}^{1-x-\frac{y}{2}} dx = \frac{1}{4}x^{2} - \frac{1}{6}x^{2} + \frac$$

$$f(x,y) - f(x_0,y_0) = f(x,y) - f(x_0,y_0) + f(x_0,y_0) - f(x_0,y_0)$$

$$= f_{x}(3,y)(x-x_0) + f_{y}(x_0,3)(y-y_0)$$

$$= f_{x}(3,y_0)(x-x_0) + f_{y}(x_0,3)(y-y_0)$$

$$\frac{\partial f}{\partial \rho} = f_{\chi} \cos \theta + f_{y} \sin \theta = \frac{\chi f_{\chi} + y f_{y}}{\sqrt{\chi^{2} + y^{2}}}$$
 (3%)