17-18 A() 期中 一. 燒空题. 1. 点(2.1.0)到桶分料 th Z=0的距离为 1/2 $cl = \frac{3.2+4.1+5.01}{\sqrt{3^2+4^2+5^2}} = \frac{10}{\sqrt{50}} = \sqrt{2}$ 2. $f(x,y) = \begin{cases} \frac{x^3 + y^3}{x^2 + y^2} & (x,y) \neq |0.0| \\ 0 & (x,y) = |0.0| \end{cases}$ $f_{x}(0,0) = \lim_{\Delta Y \to 0} \frac{f(\Delta X,0) - f(0,0)}{\Delta Y} = \lim_{\Delta Y \to 0} \frac{(\Delta X)^{2} - 0}{(\Delta X)^{2} + 0} = \lim_{\Delta Y \to 0} \frac{(\Delta X)^{2}}{(\Delta X)^{3}} = \lim_{\Delta X \to 0} \frac{(\Delta X)^{2}}{(\Delta X)^{3}} = \lim_{\Delta X}$ fyloo)=lim flo,4)-floo) = lim -14)3

44)

24 = -1 3. fky,2)= xy+2°在之(1,2,0)处的角量 =(1,2,2)的新年数为____ $f_x = 2xy$, $f_y = x^2$, $f_y = 2z$: $f_x(1.2.0) = 4$, $f_y(1.2.0) = 1$. $f_z(1.2.0) = 0$ $\overline{V} = (1,2,2) =)$ (3d= $\frac{1}{\sqrt{1247452}} = \frac{1}{3}$, (3b= $\frac{2}{3}$, (3d= $\frac{2}{3}$

: - 35 (1,2,0) -

水的=2, yh)=xt, zh)=3t2. 又曲纤在(2,0.1) 对在 t=1, :曲线在(2,0.1) 处于约号的(2,2.3) 数例转程系一生二生了。

5.88670, $\sqrt{24}$ $\sqrt{10}$ $e^{-\frac{(4)46)^2}{20^2}}dx = \sqrt{\pi.5}$ $2 \frac{1}{20} \int_{0}^{10} e^{-\frac{2}{3}} dx = \frac{\pi}{2}$ $\int_{0}^{10} e^{-\frac{(4)48)^2}{20^2}} dx = \frac{4}{\sqrt{100}} \int_{0}^{10} e^{-\frac{2}{3}} dx = \frac{\pi}{2}$ $\int_{0}^{10} e^{-\frac{(4)48)^2}{20^2}} dx = \frac{4}{\sqrt{100}} \int_{0}^{10} e^{-\frac{2}{3}} dx = \sqrt{\pi}.$ $\int_{0}^{10} e^{-\frac{2}{3}} dx = \frac{\pi}{2}$ $\int_{0}^{10} e^{-\frac{2}{3}} dx = \frac{\pi}{2}$

二选择题

6.4:5472=1,4=54-2=1,454的位置关键(C)

A.相奸点 B.科. C科 D.垂

4: 5州部 = 本= 二产,其新维克=(0.1.1), P,(0.1.0)EL,

引起,故BX, DX.

市(引,3,1)= |0 | | = |-4)- |1 | +1- |10 | = |+1=2+0

2. 4. 54. 异面.

7. 二元函数fxy)在16.45)等外域内有包x,则下列促出不正确的是(B) A. 若f在临外可缴, 则f在临外处编辑数存在. ~ B.若f在(如从)处编导数都存在,则f在(加以)连续. X C.考于的偏导数系、发在例的连续,则于在例如少于级 D. 若f在(的.5)处可缀,则f在的.5)处连续.~ \$: f(xy) = { x3y > x3y = x3y fx(0.0) = lim flatio)-fleo = = fy(0.0) 8. fky)在开区域的内有一所连续偏导数,且最低水)=fxkx水)=0. 纪A=fxkx水). B=fy(ho,5,), C=fy(ho,5,),则对并fxy)在(ho,5)处死极小值的总分辨是(B)(定理9.6.2) A. ACO, ACB270. B. ATO, AGB270. C. ACO, ACB20. D. ATO, ACB20 9. D是对平面上以O(0.0). A(1.1), B(+1)为及点的三角形区域,D,是D在第一家股产分。列:) / (Ay + cosxsiny) drady = (A) A. 255 Coxxsnydxdy. B.255 Hythoxxsny) dxdy. C.255 xydxdy. D.O. D美y轴对称, 对铁环的奇函数,: 55 4 db=0. BONA 不 Consiny 关于 x 为信用的数 : Scansing dray = > \$ consingers dy => \$\{\tytextsing) dxdy = \{\tau\dxdy + \}\(\ta\xing\dxdy = 2\}\) (2xxingdxdy

10. fthy)是连续函数. 则: Soy Sty fthy) ds = A. S'dx Sx4 fixy)dy + Sodx Stx3 fixy)dy. B. Soda Staffing) dy + Soda Star fray) dy C. Sody Sxt fray) dy + Sidy 5- Fray) dy D. Sot Six fixing) dy + 50 dx Sour fixy) dy. D to tell D={Hy) - by=1 = ry.

P| SS fthy) dxdy = SS fthy) dxdy + SS fthy) dxdy

- 11 x 504 R=8 thy) 0 = 4 = 1-P={Hyp|0=4=1+x2,-1=x50}, P={Hyp|0=4=1-x, 0=x=1} : Soy Sty fking) dx = Sodx Soft fking) dy + Sodx Soft fking) dy.