中国农业大学本科生课程考试

準蘊纖

(在草稿纸上誉题一律无效)

 $20 \cdot f(x) = e^{x}(-1) \frac{h \chi^n}{n!} \qquad f'(x) = e^{x}(-1)^n \chi^{n-1}(x+n) \quad \chi_1 = -n \ , \chi_2 = 0 \ .$ 在水二小山两侧, fin部,是挖上、水二〇两侧, n是偶数时, fin是多,是挖上, ri的奇数时, 是混出 21. /= 3(x=1) . /= 6x, Y=0. x=±1, y=0. x=0. $\frac{1}{2^{2}} \frac{1}{\sqrt{2^{2}}} \frac{1}{\sqrt{$ 两滩 料 = 200 = 2-6 即性= 1- 至6 23、取火一0,绍火=皇,天=1.(0,至川). 歌=0 紹 x=-5,マ=6.(-5,0,6). 24. 设施A(x-1)+B(y-3)+C(z-0)=0.过(H,0,1)% -2A+3B+C=0. A=-\$B 施-\$(x-1)+(y-3)+\$(z-0)=0. 法向市=(A,B,0-5 Q=(1,1,1)-基金 . A+B+C=0. 船(C= == B) 即-4×+3y+z-5=0. 25 . Jardanx dx = - 1 Jardanx d = - 1 ardanx + 1 Jx + 1 Jx dx = - 1 ardanx + 2 J(x - 1+x) dx = - 2x ardanx + 2 J(x - 1+x) dx = $I = \int_{3}^{13} ardan \times \frac{d\pi}{x^3} = \left(\frac{1}{2x^3} arctan \times -\frac{1}{2x} - \frac{1}{2} arctan \times\right) \int_{1}^{15} = \left(-\frac{11}{215} \frac{\pi}{3} - \frac{1}{215} - \frac{\pi}{3}\right) - \left(-\frac{1}{2} \frac{\pi}{4} - \frac{1}{2} - \frac{1}{2} \frac{\pi}{4}\right) = \frac{\pi}{36} + \frac{3-13}{6}$ $26 \ f(x) = axtanx + \frac{1}{x}, \ f'(x) = \frac{1}{1+x^2} - \frac{1}{x^2} = \frac{-1}{(1+x^2)x^2} < 0 \ f(x) \ v$