中山大學本科生考试草稿纸如清心

管示 《中山大学授予学士学位工作细则》第七条:"考试作弊者不授予学士学位。" $P.75.6 \qquad g(r) = \begin{cases} \frac{GMr}{R^3} , & r < R \\ \frac{GM}{r^2} , & r > R \end{cases}$ (1) g(r) 是否连续: g(R)=GM; r<R对,g(r)=GMr 连续; r>R时, gcn= <u>GM</u> 线点. $\lim_{r\to R\to 0} g(r) = \lim_{r\to R\to 0} \frac{GMr}{R^3} = \frac{GM}{R^2}, \lim_{r\to R\to 0} g(r) = \lim_{r\to R\to 0} \frac{GM}{\gamma^2} = \frac{GM}{R^2}$ ling(r) = ling(r) = GM = g(R), wipg(r) & r=R +1513. 四作的物学图; 的gm是如子? $r < R = \frac{GM}{R^3}$ r>R n=1, $g(r) = \frac{-2GM}{r^3}$, $g(r) \neq m \neq 0$; $g(r) = \lim_{r \to R+0} \frac{g(r)-g(r)}{r-R} = \lim$ $=\lim_{\gamma\to R+0}\frac{-GM^{c\gamma+R}}{\gamma^2R^2}=-\frac{2GM}{R^3}$ $g'(R-v) = \lim_{r \to R-v} \frac{g(r) - g(R)}{r - R}$ $=\lim_{r\to R-0}\frac{\frac{GMr}{R^3}-\frac{GM}{R^2}}{r-R}=\lim_{r\to R-0}\frac{GM}{R^3.(r-R)}=\frac{GM}{R^3}$ g'(R+0) + g'(R-0), up g(r) Ar=R7- m3.

 $\frac{p.75.7}{14} \stackrel{?}{\cancel{1}} \stackrel{?}{\cancel{2}} \stackrel{?}{\cancel$

 $p(x) = -\frac{1}{2}x^2 + 3/x + \frac{1}{2}$