(科目:) 清华大学数学作业纸



編号: 电动力等H6 班级:

3.13. $G(\vec{x},\vec{x}') = 4\pi \sum_{l=0}^{\infty} \sum_{m=-l}^{\infty} (2l+1)(1-l-a)^{2l+1}) (r_{l} - \frac{a^{2l+1}}{r_{l}!}) (r_{$ = 4x \(\frac{2\tau}{1=0}\)\(\f = 50 P1 (cosp) P 26) | r'= b = - \frac{\infty (2(4) P_1 (coso') P_1 (coso)}{\infty (1-12)^{2H}} (r'- \frac{\alpha^{2(4)}}{\infty (+1)} (r'=r). 25/ 1= a = \(\frac{1}{2} \frac{1}{4} \left(\frac{1}{4} \frac{1}{4} \left(\frac{1}{4} \f $= \frac{Va(b-r)}{2(1-\frac{a}{b})rb} + \frac{3 \int_{a}^{b} (oxo)}{4 \int_{a}^{b} (b-r)} + \frac{2}{3} \int_{a}^{b} (oxo)}{4 \int_{a}^{b} (and)} + \frac{2}{3} \int_{a}^{b} (oxo)}{4 \int_{a}^{b} (and)} + \frac{2}{3} \int_{a}^{a$ 4 V(r-a) = 3 P((so)) (r3-a3) + 200 ti) (4nt3) (7 mt) - 0 mt) 2 (1- (a)) r2b m21 2 (1- (a)) r2b m21 2 (1- (a)) r2b m21) $= \frac{1}{2} + \frac{4(p_3 - a_3)}{4(p_3 - a_3)} + \frac{1}{2} = \frac{1}{2} \times \frac{1}{2} \times$

1. 1 (m=) 1tm r poto は =ab (Yth (子, 子)-Yth (子, ス)+Yth (子,の-Yth (子, 多)) 9 ... = -9" - ag (1-1) = - ag 9 2.3 = - 709 000 VZ 931= ゴーロック(トリンショ. (qum = a'g [Yin (0, 9) + Yin (x, 4)] 12.0 = ag VE 9+10 009 17 10 9(1) = 1 + 1 = 1+1 (2 m / 1 m / 10 m) = 10 (2(+1) = 91.4 (6 (0.4)) = 27 5 02/P2((050) か年一段: 9 (1000) = 102 3000-1 2x40 12x40 = 2x40 · 2r3 メータ年間:中(ハ)= - 902. (d). 9(r)====== (+-1). φ=(n)-φ(n)= 902 (2 = 2 - 1)

47.60 (2 = 2 - 1) TOP = 29 (1-601-0) - 02) = 29 (a - 02) = 4280 (2r - 2r2)

= 9a (1-a)