

電腦在工程數學應用—作業三

HW1: 求如下不定積分

$$\int r^2 dv = \quad (1)$$

$$\int r^4 dv = \quad (2)$$

$$\int r^6 dv = \quad (3)$$

$$\int r^8 dv = \quad (4)$$

$$\int r^{10} dv = \quad (5)$$

$$\int r^{12} dv = \quad (6)$$

$$\int r^{14} dv = \quad (7)$$

$$\int r^{16} dv = \quad (8)$$

$$\int r^{18} dv = \quad (9)$$

$$\int r^{20} dv = \quad (10)$$

$$\int r^2 \ln(r) dv = \quad (11)$$

$$\int r^4 \ln(r) dv = \quad (12)$$

$$\int r^6 \ln(r) dv = \quad (13)$$

$$\int r^8 \ln(r) dv = \quad (14)$$

$$\int r^{10} \ln(r) dv = \quad (15)$$

$$\int r^{12} \ln(r) dv = \quad (16)$$

$$\int r^{14} \ln(r) dv = \quad (17)$$

$$\int r^{16} \ln(r) dv = \quad (18)$$

$$\int r^{18} \ln(r) dv = \quad (19)$$

$$\int r^{20} \ln(r) dv = \quad (20)$$

where

$$r^2 = v^2 + y_r^2$$

■ 海大河工系陳正宗 電腦在工數上的應用與計算機在工程上之應用 ■
【存檔：e:/ctex/course/mathom3.te】 【建檔:10/23/'95】