

my mistake in this quiz was that I don't know why I wrote 3 rather than 2 during the antiderivative of the first derivative omg

6) $\int x^3 \cos 3x \, dx$ A) $\frac{1}{3}x^3 \sin 3x - \frac{1}{3}x^2 \cos 3x + \frac{2}{9}x \sin 3x + \frac{2}{27} \cos 3x + C$ B) $\frac{1}{3}x^3 \sin 3x + 1x^2 \cos 3x - 2x \sin 3x - 2 \cos 3x + C$ $C_{27}^{3} x^{3} \sin 3x + \frac{1}{3} x^{2} \cos 3x - \frac{2}{9} x \sin 3x - \frac{2}{27} \cos 3x + C$ D) $\frac{1}{3}x^3 \cos 3x + \frac{1}{3}x^2 \sin 3x - \frac{2}{9}x \cos 3x - \frac{2}{27}\sin 3x + C$ 7) $\int_{0}^{4} x^{4} \ln 9x \, dx$ A) 774.86 D) 692.94 C) 699.77 B) -201.22 8) DA 8) $\int (x^2 - 3x) e^x dx$ -12.5 (A) $e^{x[x^2 - 5x + 5] + C}$ B) $e^{x}[x^2 - 5x - 5] + C$ $D) \frac{1}{3}x^{3}e^{x} - \frac{3}{2}x^{2}e^{x} + C$ C) $e^{x}[x^2 - 3x + 3] + C$ sign (x2-3x) ex O Jx4 ln 9x dy $\frac{U=ln q \times dv = x^{q}}{qx = x} \frac{dv = x^{q}}{5}$ 209.8-40.96 $L_{n}^{(20)} \cdot (0)^{5} -$ 163.84

Campus - # 7A ATE Partia hird Vode) Dox-B 1117 en(24x) $\frac{1}{1}x^2\cos z$ 2xdx (2 cos 3) 4x 6 n(24x 2 cos 3; $\frac{1}{\sin 3x}$ F U=ln(24x) dv=2x U=ln124x dv= du= 1 $V = 2X^2$ dU= 24 1 V=X V X 2 × 24× V=X2 B) E ln (24x ·× 0 0 x 2-2 ly 24x 0 E X X 24 ln X · x2 -B LATE E)ex 2-3× X dx UEX2 dv=ex 1=3× dv=ex V= ex du=3 du=2x V=ex 3 Sex 3× ° C 3x · ex 3PX f X·PX ·P d dy 3 ex + OP 0 X ex ax PX 3×+ 3 ex ead ex × PX Sx+ B + 0 -(9/20