Dist 5:13×605×dx = (1-1052x)5:11×C055x Jx = \((1-0705(-20) = \(07-05 \) \(05-07 \) \(05 \) $= \frac{06}{6} \cdot \frac{08}{8} \cdot \frac{0}{6} \cdot \frac{1}{8} = \frac{1}{24}$ I Shallve took: from the sin: Insteed of cosine. $\int_{0}^{\infty} x e^{7x} dx \qquad V = \frac{1}{7}e^{7x} \quad \partial v = e^{7x} dx$ = | X = 7 = 7 = 7 = 7 × dx $= \frac{1}{7}e^{7} - \frac{1}{7}\left(\frac{1}{6}e^{7x}\right) + \frac{1}{7}e^{7x} = \frac{1}{7}e^{7x} =$ 16e7+1 I messed up Simplication Origonally

4.
$$\int x\sqrt{1-x^2}$$
 $v=x^2$ $Jv=2>J$

$$= \frac{1}{2}\int \sqrt{1-s} \cdot n2s \cos \theta d\theta - \frac{1}{2}\int \cos^2 \theta d\theta$$

$$= \frac{1}{2}\int \frac{1+\cos 2\theta}{2}d\theta - \frac{1}{4}\int \frac{1+\cos 2\theta}{2}d\theta$$

$$= \frac{1}{4}\int \frac{1+\cos 2\theta}{2}d\theta - \frac{1}{4}\int \frac{1+\cos 2\theta}{2}d\theta$$
Shouldre made $\sqrt{2}x^2$ before $\frac{1}{2}\int \frac{1+\cos 2\theta}{2}d\theta$.

Shouldre made UZZ Gofore did trig Sub.

I got the wrong derivtue of cos(\(\frac{1}{2}\))

$$S = \int_{0}^{2} 2\pi (x+1)^{4} \int_{0}^{1} 1 + (4(x+1)^{3})^{2} dx$$

$$I got it average because ithought is had to fill in dx .$$

- (x3)(x+2) x-3 + B X46 - AX+2A+BX-3B A+3=1 2)6 = (A+B)x + (2A-3B) 2-2B-3B=6 13 = -4 1X + 5 4/5 dx + 5 = 4/5 DX A-95 = x+3/n/x-3/-4/n/x+2/+C I got it wrong inidally because i did not know to do long divisor if tropped = degalx) Next Exam, I'm gonne study mere Hu problems because I did not this time

Q=

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