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SUB:

CALCULUS

QUIZ:

1st

$$2 \int_0^1 t^{\frac{2+1}{3}} + \int_0^1 x$$

$$= 4 \int_0^1 \frac{t^4}{4} - 2 \int_0^1 \frac{t^3}{3} - \int_0^1 t$$

$$2 \int_0^1 \frac{t^3}{3} + \int_0^1 t$$

$$= \frac{4 \left( \frac{(1)^4}{4} \right) - 2 \left( \frac{1}{3} \right) - (1) - \frac{4(0)^4 - 2 \left( \frac{0}{3} \right)}{2(0) + 0}}{2 \left( \frac{1}{3} \right)^3 + 1}$$

$$= \frac{4}{4} - \frac{2}{3} - 1 - \frac{(0)}{0}$$

$$\frac{12 - 8 - 1}{12}$$

3/

12

$$= \frac{1}{4} \text{ Answer}$$

$$\begin{array}{r|l} 3 & 4,3 \\ 4 & 4,1 \end{array}$$

$$= \int_2^3 t \int_2^3 \sin t^2 dt$$

$$= \int_2^3 2t \int_2^3 \cos 2t$$

$$= 2(3) - \cos 2(2) + 2(2) - \cos(2)(2)$$

$$= 6 + 0.6534 + 4 + 0.6534$$

$$= 11.3068 \text{ Ans.}$$