Calculus


Panel2

$$
\int_{1}^{2} \frac{1}{t} d t \quad \text { elt andpoits }
$$



$$
\begin{aligned}
& \text { alt: } \frac{1}{4}[f(1)+f((2 x)+f((1))+f(1)+1)]= \\
& \frac{1}{4}\left(\frac{1}{1}+\frac{1}{1.2 r^{5}}+\frac{1}{1 \mu 5}+\frac{1}{p} x\right)
\end{aligned}
$$

nult $\left.\frac{1}{4}[f(1.21)+f(1 r)+f(1.31)+12)\right]$

Panel 3

$$
\begin{aligned}
& f(x)=\operatorname{arclan}\left(x^{2}\right)\left(1+x_{2}^{4}\right)^{3} \\
& \frac{1}{\left.1 x(x)^{2}\right)^{2}} \cdot 2 x\left(1+x^{4}\right)^{8}+\operatorname{archan}\left(x^{2}\right) \cdot 3\left(1+x^{4}\right)^{2} \cdot 4 x^{3} \\
& \int_{0}^{\pi / 4} \frac{\sin (x)}{\cos ^{3}(x)} d x=-\int_{1}^{1 / \sqrt{2}} \frac{1}{u^{3}} d u=-\left.\frac{1}{-2} u^{-2}\right|_{1} ^{1 / n}=+\frac{1}{2}(2-1)=\frac{1}{2} \\
& u=\cos (x) \\
& d u=-\sin (x) d t \\
& 3 A_{x}=0 \text {, then } \omega^{*} \cos (0)=1 \\
& X_{>}=\frac{\pi}{4}, \cos \left(\frac{\pi}{4}\right)=1 / \sqrt{2}=i n
\end{aligned}
$$

Panel 4

$$
\begin{aligned}
& \int x^{2} e^{-x^{3}} \frac{d x}{u=x^{2}}=-\frac{1}{j} \int e^{u} d u=-\frac{1}{j} e^{u}+c=-\frac{1}{j} e^{-x^{3}}+c \\
& d u=2 x d x \quad d u=-3 x^{3} d x
\end{aligned}
$$

Exam: (1) Delinition
(10) Stary moul.
(2) Che dehinios Cexp. qrowilday
(3) Pictivs poflem
(4) linits
(5) dinis or mar(mad)
(8)(2) suppise? ( $2^{\text {all }}$ Sinad. thencabs)
(6) Tichenats
(7) Shecth a gapt ratioval or unuif ln $\exp$

Panel 5


