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$\int (f(x))^2 dx$. a. \square .

b. $\int x (f(x))^2 dx$ a.

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$$\int f(x) dx = \frac{1}{2} (y_0 + 2y_1 + 2y_2 + \dots + 2y_{N-1} + y_N)^2.$$

$$\int f(x) dx = \frac{1}{4} (y_0 + 4y_1 + 2y_2 + 4y_3 + 2y_4 + \dots + 4y_{N-1} + y_N)^3.$$

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Formula Sheet ii/ii.

2.

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Formula Sheets.

$y=f(x)$ $\frac{dy}{dx} = nx^{n-1}$

e^x $\ln x$ $\sin x$ $\cos x$ e^{kx} ax 1

$x \cos x$ $-\sin x$ $k e^{kx}$

$a x \ln a$ $\tan x$ $\cot x$

$\sec x$ $\operatorname{cosec} x$ \sinh

x $\cosh x$ $\sec^2 x$

$-\operatorname{cosec}^2 x$ $\sec x$.

$\tan x$ $-\operatorname{cosec} x$ \cot

x $\cosh x$ $\sinh x$. If y

$= uv$, then. $\frac{dy}{dx} = u \frac{dv}{dx} + v \frac{du}{dx}$

$\frac{dy}{dx} = u \frac{dv}{dx} + v \frac{du}{dx}$

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du dv u dx dx v2.

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(formula sheet 1)

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q = heat transferred per unit time (W, Btu/hr) A = heat transfer area of the surface (m^2 , ft^2) h_c = convective heat transfer coefficient of the process (W/ $m^2 K$) or W/ $m^2 C$), Btu/ ($ft^2 h...$

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$a^2 - (2a - ab) - a(3b$

$+ a) = a^2 - 2a + ab - 3$

$ab - a^2$. Collecting

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together gives:

$-2a - 2ab$. Since $-2a$ is a common factor, the answer can be expressed as $-2a(1+b)$

Problem 28.

Simplify

$(a+b)(a-b)$ Each term in the second bracket has to be multiplied by each term in the first bracket. Thus:

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$$(a+b)(a-b) = a^2 - a$$
$$b + ab - b^2 = a^2 - b^2.$$

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Euler's Polyhedra

Formula by Euler,

1751. Source:

Giphy. According to

Euler's formula, by

adding the vertices

and faces of a

Polyhedra (the

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three-dimensional
versions of
polygons) together,
and subtract their
edges, you will
always get 2. This
is true regardless
the number of
faces of your
polyhedron. Wave
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In Cartesian

coordinates $\rho =$

$\rho(x, y, z)$; in

cylindrical polar

coordinates $\rho =$

$\rho(\hat{r}, \theta, z)$; in spherical

polar coordinates

$\rho = \rho(r, \theta)$; in cases

with radial

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symmetry $\hat{r} = \hat{r}(r)$.

A is a vector function whose components are scalar functions of the position coordinates: in Cartesian coordinates $\mathbf{A} = iA_x + jA_y + kA_z$, where A_x, A_y, A_z .

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Engineering maths

Simplify $1\frac{4}{5} - 2\frac{1}{10} + 5\frac{1}{8}$

$\times 5\frac{1}{8} + 9\frac{1}{10} - 1\frac{4}{5}$

$- 2\frac{1}{5} \times 5\frac{1}{8} + 9$

$10 = 1\frac{4}{5} - 11\frac{5}{8} \times$

$5\frac{1}{8} + 9\frac{1}{10} = 1\frac{4}{5} -$

$11\frac{1}{8} \times 1\frac{8}{5} + 9\frac{1}{10}$

by cancelling $= 1\frac{4}{5}$

$- 11\frac{8}{5} + 9\frac{1}{10}$ (M)

$= 1 \times 10\frac{4}{5} \times 10 -$

$11 \times 5\frac{8}{5} \times 5 + 9 \times 4$

10×4 (since the

LCM of 4, 8 and 10

is 40) 14BasicEngin

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$$= 10 \cdot 40 - 55 \cdot 40 + 36 \cdot 40 = 10 - 55 + 36$$

40 (A/S) = - . 9 40

Problem 19.

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