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

~~$\int (y_0 + 2y_1 + 2y_2 + \dots + 2y_N$~~

~~$\int (1 + y_N)^2 \cdot h f(x) dx$ $\int (y_0 + 4y_1 + 2y_2$~~

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Formula Sheets. $y=f(x)$ $dy dx$ x^{n-1} $\ln x$ $\sin x$ $\cos x$ e^{kx} a^x $\frac{1}{x}$ $\cos x$ $-\sin x$ $k e^{kx}$ $a^x \ln a$ $\tan x$ $\cot x$ $\sec x$ $\operatorname{cosec} x$ $\sinh x$ $\cosh x$ $\sec^2 x$ $-\operatorname{cosec}^2 x$ $\sec x$ $\tan x$

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Formula
-cosec x. cot x cosh x sinh x. If $y = uv$,
then. $dy = v du + u dv$
 $\frac{dy}{dx} = v \frac{du}{dx} + u \frac{dv}{dx}$

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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/ ($m^2 o C$), Btu/ ($ft^2 h \dots$)

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$$a^2(2a+ab)+a(3b+a) = a^2+2a+ab+3ab+a^2.$$

Collecting similar terms together gives:
 a^2+2ab . Since a^2 is a common factor, the answer can be expressed as $a^2(1+b)$

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

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Euler's Polyhedra Formula by Euler, 1751. Source: Giphy. According to

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Euler's formula, by adding the vertices and faces of a Polyhedra (the 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 Equation by J.d'Almbert, 1746

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In Cartesian coordinates $\mathbf{r} = r(x, y, z)$; in cylindrical polar coordinates $\mathbf{r} = r(\hat{r}, \theta, z)$; in spherical polar coordinates $\mathbf{r} = r(r, \theta, \phi)$; in cases with radial symmetry $\mathbf{r} = r(r)$. \mathbf{A} is a vector function whose components are

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scalar functions of the position
coordinates: in Cartesian
coordinates $A = iA_x + jA_y + kA_z$,
where A_x, A_y, A_z .

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Simplify $1 \frac{4}{5} \times 5 \frac{8}{10} + 9 \frac{10}{14} \frac{2}{15}$
 $\times 5 \frac{8}{10} + 9 \frac{10}{14} = 1 \frac{4}{5} \frac{2}{15} \times 5 \frac{8}{10} + 9 \frac{10}{14} = 1 \frac{4}{5} \frac{2}{15} \times 1 \frac{8}{10} + 9 \frac{10}{14}$ by cancelling = $1 \frac{4}{5} \frac{2}{15} \times 1 \frac{8}{10} + 9 \frac{10}{14}$ (M) = $1 \times 10 \frac{4}{10} \times 10 \frac{2}{15} \times 5 \frac{8}{5} + 9 \times 4 \frac{10}{4}$ (since the LCM of 4, 8 and 10 is 40) 14BasicEngineeringMathematics. =

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10 40 ? 55 40 + 36 40 = 10?55+36 40
(A/S) =?. 9 40 Problem 19.

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