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



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)dx  $(y_0 + 2y_1 + 2y_2$

$+ \dots + 2y_{N-1} + y_N)$

2.  $\int f(x)dx = (y_0 + 4$

$y_1 + 2y_2 + 4y_3 + 2y_4$

$+ \dots + 4y_{N-1} + y_N)$

3. CIVE 259901 Formula  
Sheet ii/ii. 2.

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Mathematics - Formula  
Sheets.  $y=f(x)$   $dy$   
 $dx$   $x^n$   $x^{n-1}$   $e^x$   $\ln x$   $\sin x$   
 $\cos x$   $e^{kx}$   $ax$   $\frac{1}{x}$   $\cos x$   
 $-\sin x$   $k e^{kx}$   $a x \ln a$   $\tan x$   
 $\cot x$   $\sec x$   $\operatorname{cosec} x$   $\sinh x$   
 $\cosh x$   $\sec^2 x$   $-\operatorname{cosec}^2 x$   
 $\sec x$   $\tan x$   $-\operatorname{cosec} x$   $\cot x$   
 $\cosh x$   $\sinh x$ . If  $y = uv$ ,  
then.  $\frac{dy}{dx} = u \frac{dv}{dx} + v \frac{du}{dx}$

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Formula Sheet |

Geometric ...

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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 ( $m^2$ ,  $ft^2$ )  $h c =$

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Mathematics  
Formula

convective heat transfer  
coefficient of the process  
(W/ (m<sup>2</sup> K) or W/ (m<sup>2</sup>  
2o C), Btu/ (ft<sup>2</sup> h...

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

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Collecting similar terms 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:  
 $(a+b)(a - b) = a^2 - ab + ab - b^2 = a^2 - b^2$ .

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Formula by Euler, 1751.  
Source: Giphy.

According to 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



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Mathematics  
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true regardless the  
number of faces of your  
polyhedron. Wave  
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In Cartesian coordinates

$\vec{r} = (x, y, z)$ ; in

cylindrical polar

coordinates  $\vec{r} =$

$(\rho, \phi, z)$ ; in spherical

polar coordinates  $\vec{r} =$

$(r, \theta, \phi)$ ; in cases with

radial symmetry  $\vec{r} =$

$(r)$ .  $\vec{A}$  is a vector

function whose

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components are 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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engineering maths

Simplify  $1\frac{4}{8} - 2\frac{15}{10} \times 5$

$8 + 9\frac{10}{10} - 2\frac{15}{10} \times 5$

$8 + 9\frac{10}{10} = 1\frac{4}{10} - 11\frac{5}{10} \times$

$5\frac{8}{10} + 9\frac{10}{10} = 1\frac{4}{10} - 11\frac{1}{10}$

$\times 1\frac{8}{10} + 9\frac{10}{10}$  by

cancelling =  $1\frac{4}{10} - 11\frac{8}{10} +$

$9\frac{10}{10}$  (M) =  $1 \times 10\frac{4}{10} \times 10$

$- 11 \times 5\frac{8}{10} \times 5 + 9 \times 4$

$10 \times 4$  (since the LCM of

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4, 8 and 10 is 40) 14 Basic  
Engineering Mathematics  
$$\begin{aligned} &= 10 \cdot 40 - 55 \cdot 40 + 36 \cdot 40 \\ &= 10 - 55 + 36 \cdot 40 \text{ (A/S)} \\ &= - . 9 \cdot 40 \text{ Problem 19.} \end{aligned}$$

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