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$\int (f(x))^2 dx$ . a.  $\int x(f(x))^2 dx$  a.  $\int h f(x) dx$   $\int (y_0 + 2y_1 + 2y_2 + \dots + 2y_N \int_1 + y_N) 2. \int h f(x) dx$   $\int (y_0 + 4y_1 + 2y_2 + 4y_3 + 2y_4 + \dots + 4y_N \int_1 + y_N) 3.$  CIVE 259901 Formula Sheet ii/ii. 2.

Engineering Mathematics Formula Sheet [134wx9er6zn7]

Hello Aspirants, These formulas are shortcuts will help you solve the questions quickly.

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162001 Engineering Mathematics - Formula Sheets.  $y=f(x)$   $dy dx$   $x^{n-1}$  ex.  $x^n$  ex  $\ln x$   $\sin x$   $\cos x$   $e^{kx}$  ax.  $1/x$   $\cos x$   $-\sin x$   $e^{kx}$  ax  $\ln a$ .  $\tan x$   $\cot x$   $\sec x$   $\operatorname{cosec} x$   $\sinh x$   $\cosh x$ .  $\sec^2 x$   $-\operatorname{cosec}^2 x$   $\sec x$ .  $\tan x$   $-\operatorname{cosec} x$ .  $\cot x$   $\cosh x$   $\sinh x$ . If  $y = uv$ , then.  $dy dv du = u + dx dx dxv du dv u dx dx v^2$ .

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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/ ( $ft^2 h...$

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$a^2(2a+ab)+a(3b+a) = a^2(2a+ab)+3ab+a^2$ . Collecting similar terms together gives:  $a^2(2a+2ab)$ . 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 Euler's formula, by adding the vertices and faces of a Polyhedra (the three-dimensional versions of polygons)

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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  $\mathbf{r} = \mathbf{i}(x, y, z)$ ; in cylindrical polar coordinates  $\mathbf{r} = \mathbf{i}(r, \theta, z)$ ; in spherical polar coordinates  $\mathbf{r} = \mathbf{i}(r, \theta, \phi)$ ; in cases with radial symmetry  $\mathbf{r} = \mathbf{i}(r)$ .  $\mathbf{A}$  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  $1 \frac{4}{5} \times 5 \frac{8}{10} + 9 \frac{10}{14} = 1 \frac{4}{5} \times 5 \frac{8}{10} + 9 \frac{10}{14} = 1 \frac{4}{5} \times 1 \frac{1}{1} \times 1 \frac{8}{10} + 9 \frac{10}{14}$  by cancelling =  $1 \frac{4}{5} \times 1 \frac{8}{10} + 9 \frac{10}{14}$  (M) =  $1 \times 10 \frac{4 \times 10}{5 \times 10} + 9 \times 4 \frac{10 \times 4}{5 \times 10}$  (since the LCM of 4, 8 and 10 is 40)  $14 \text{BasicEngineeringMathematics.} = 10 \frac{40}{5} + 36 \frac{40}{40} = 10 \times 55 + 36 \frac{40}{40}$  (A/S) =  $9 \frac{40}{40}$  Problem 19.

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