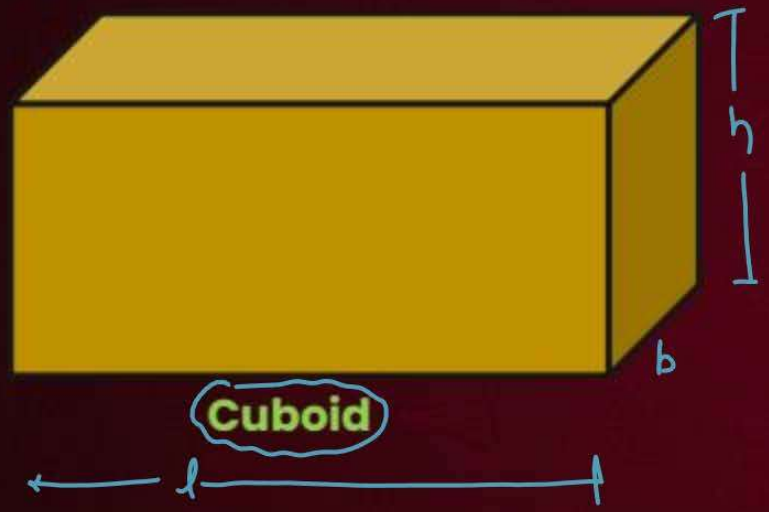
Solid Figures

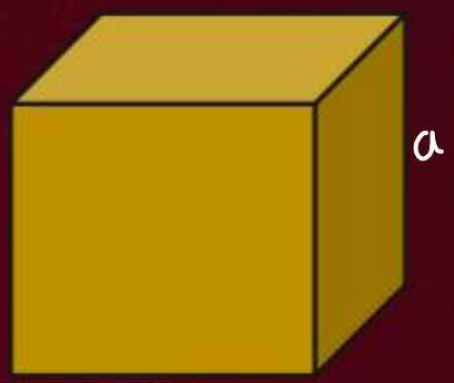
Volume = Base Area x Height



Cuboid

T.S.A = $2(lb + bh + hl)$
L.S.A = $2h(l + b)$ → Area of four walls
Vol. = $l \times b \times h$

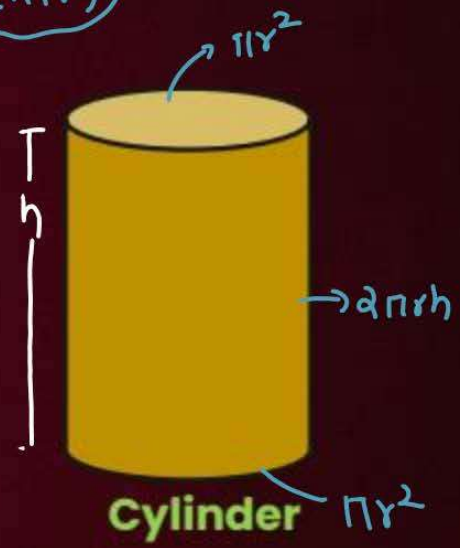
$l = b = h = a$



Cube

T.S.A = $6a^2$
L.S.A = $4a^2$
Vol. = a^3

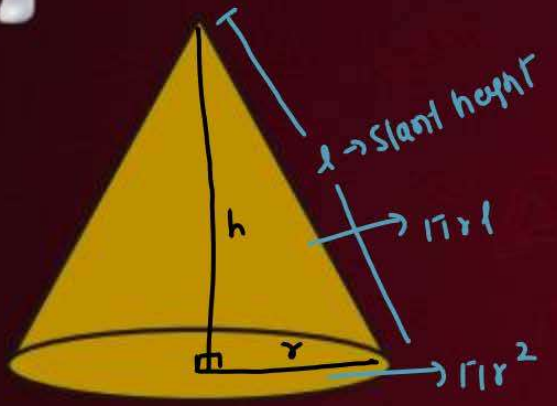
$2\pi rh + 2\pi r^2$
$2\pi r(h + r)$



Cylinder

C.S.A = $2\pi rh$
T.S.A = $2\pi r(r + h)$
Vol. = $\pi r^2 h$

Solid Figures



πr² + πrl
π r (r + l)

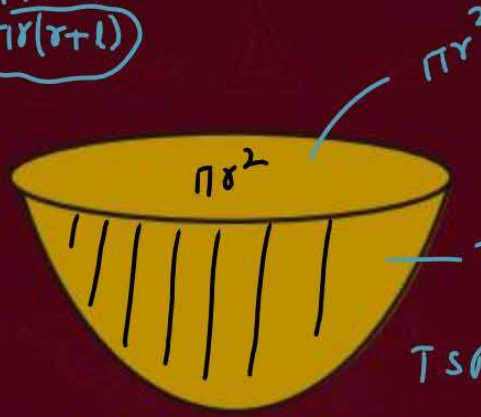
Cone

$l^2 = r^2 + h^2$ or $l = \sqrt{r^2 + h^2}$

C.S.A = πrl

T.S.A = $\pi rl(r + l)$

Vol. = $\frac{1}{3}\pi r^2 h$

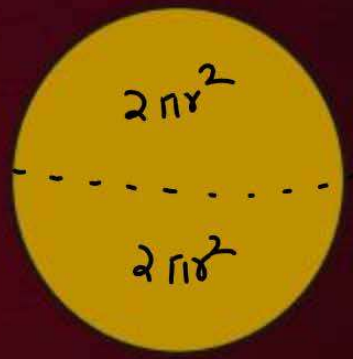


Hemi-sphere

C.S.A = $2\pi r^2$

T.S.A = $3\pi r^2$

Vol. = $\frac{2}{3}\pi r^3$

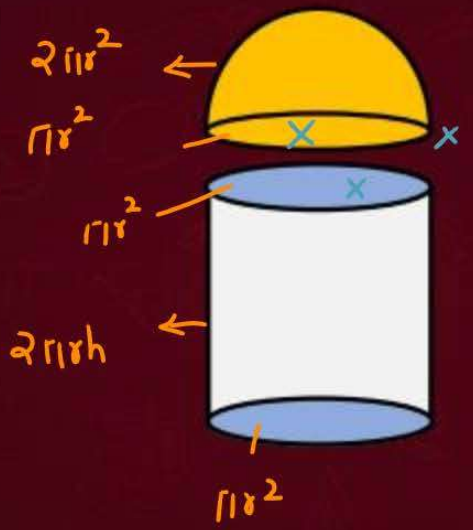


Sphere

C.S.A = $4\pi r^2$

Vol. = $\frac{4}{3}\pi r^3$

Combinations of Solid Figures

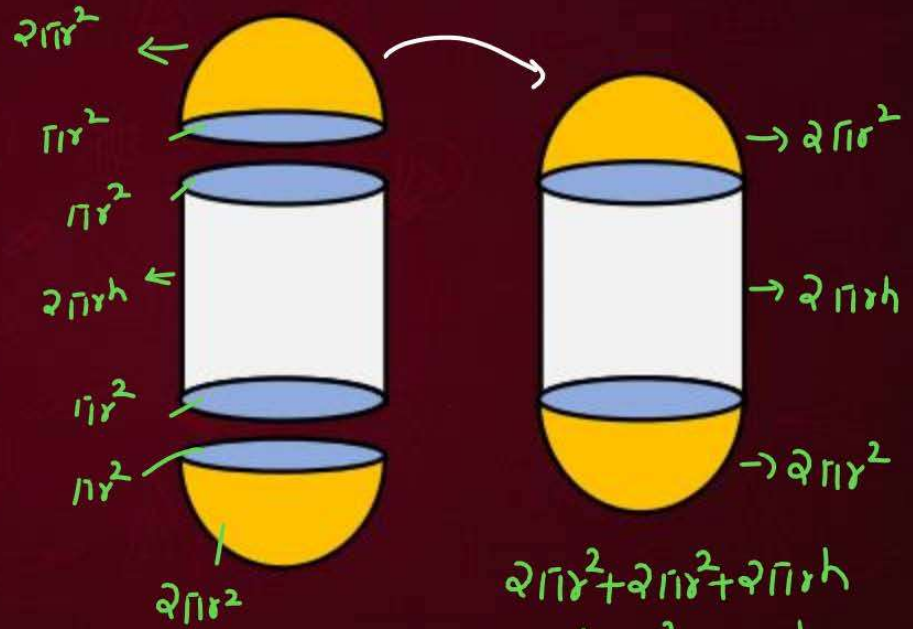


$2\pi r^2 + \pi r^2 + 2\pi rh$

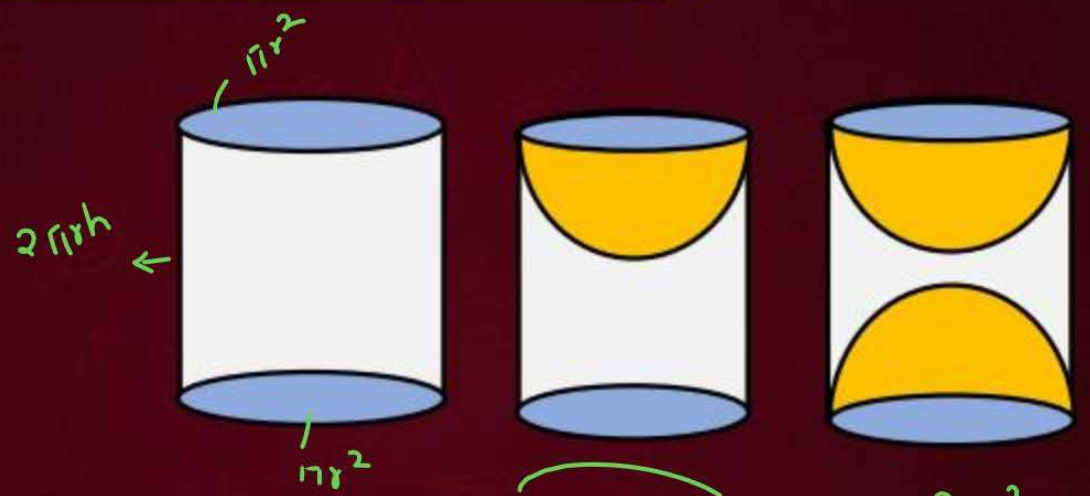
$3\pi r^2 + 2\pi rh$

$\pi r[3r + 2h]$

Combinations of Solid Figures



Combinations of Solid Figures



$2\pi r^2 + 2\pi rh + \pi r^2$

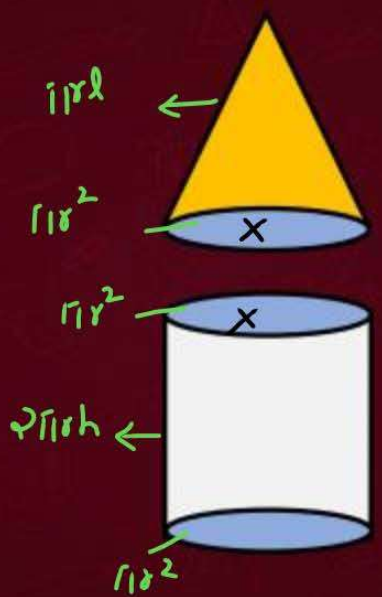
$3\pi r^2 + 2\pi rh$

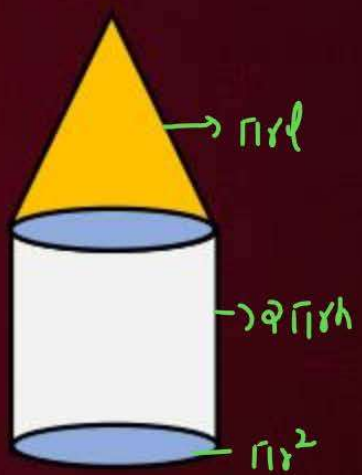
$2\pi r^2 + 2\pi rh + 2\pi r^2$

$4\pi r^2 + 2\pi rh$

$2\pi r(2r + h)$

Combinations of Solid Figures

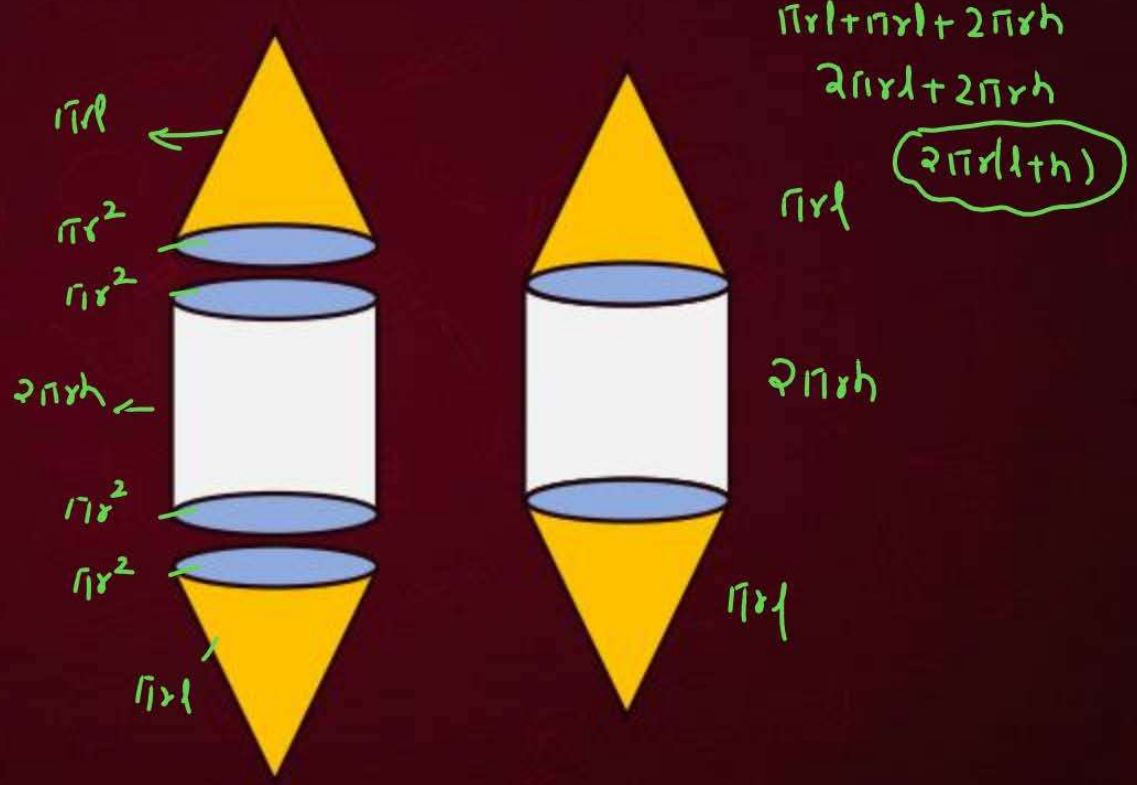




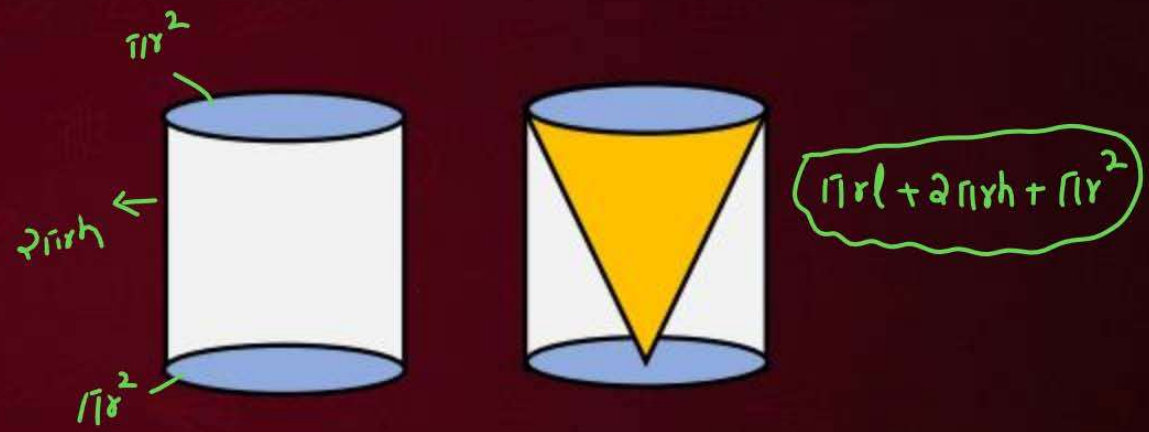
$\pi r^2 + 2\pi rh + \pi rl$

$\pi r(r + 2h + l)$

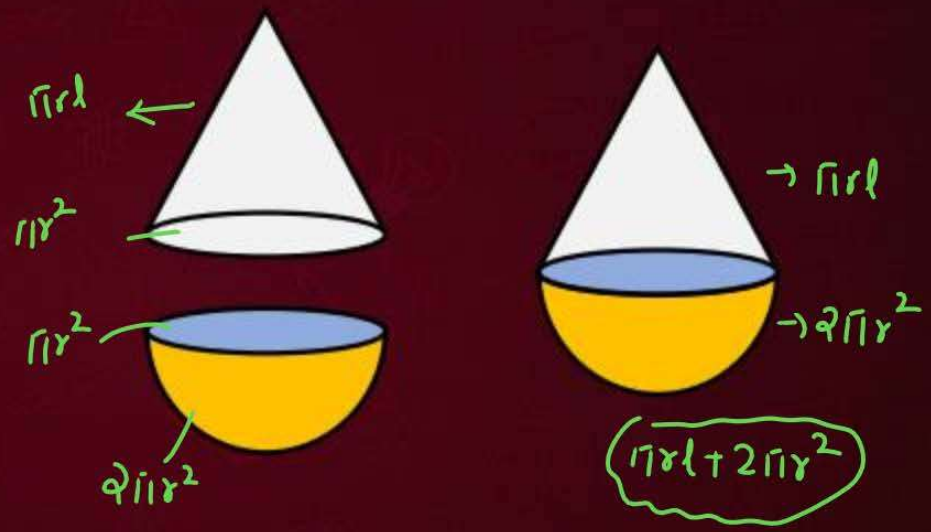
Combinations of Solid Figures



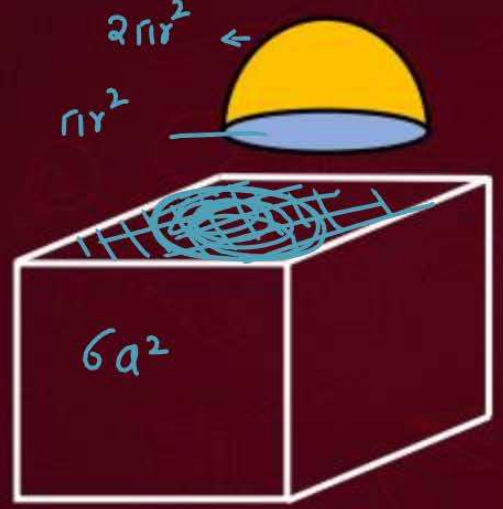
Combinations of Solid Figures



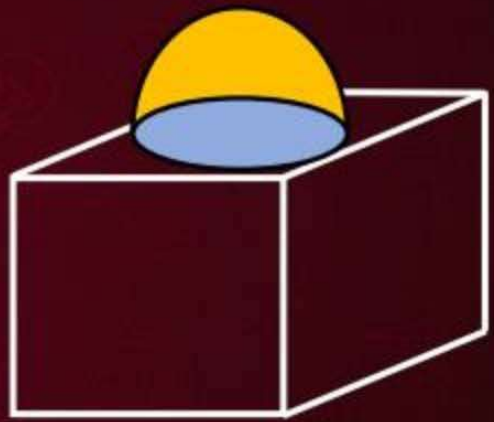
Combinations of Solid Figures



Combinations of Solid Figures



Cube



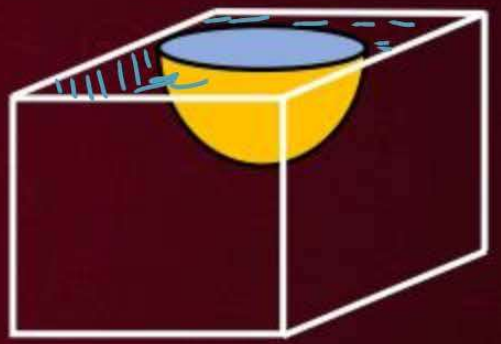
$2\pi r^2 + 6a^2 - \pi r^2$

$\pi r^2 + 6a^2$

Combinations of Solid Figures

$2\pi r^2 + 6a^2 - \pi r^2$

$\pi r^2 + 6a^2$



Combinations of Solid Figures

Given $r =$ $l =$
$h =$

Formulae

$2\pi rh + 6a^2 - \pi r^2 - \pi r^2$

$2\pi rh + 6a^2 - 2\pi r^2$