Find the volume and surface area of the following. Show your solutions.


| Right cone |
| :--- |
| $\mathrm{S}=\pi \mathrm{rl}+\pi \mathrm{r}^{2}$ |

$\mathrm{~S}=\mathrm{Surface}$ Area
$\pi=3.14$
$\mathrm{r}=$ radius
$\mathrm{I}=$ slant height
Oblique cone (no formula)
slant height is not defined

$V=4 / 3 \pi r^{3}$ $S=4 \pi r^{2}$
V = Volume
S = Surface Area
$\pi=3.14$ $r=$ radius


# Find the volume and surface area of the following. Show your solutions. 


Circular cone
$V=1 / 3 \pi r^{2} h$
$V=$ Volume
$\pi=3.14$
$r=$ radius
$h=$ height
Right cone
$\mathrm{S}=\pi \mathrm{rl}+\pi \mathrm{r}^{2}$
$\mathrm{~S}=$ Surface Area
$\pi=3.14$
$\mathrm{r}=$ radius
$\mathrm{I}=$ slant height
Oblique cone (no formula)
slant height is not defined


$V=4 / 3 \pi r^{3}$ $S=4 \pi r^{2}$<br>V = Volume<br>S = Surface Area<br>$\pi=3.14$ $r=$ radius



$$
\begin{array}{rlrl}
\mathrm{V} & =4 / 3 \pi \mathrm{r}^{3} & \mathrm{~S} & =4 \pi \mathrm{r}^{2} \\
& =4 / 3(3.14)(27)^{3} & & =4(3.14)(27)^{2} \\
& =82406.16 & & =9156.24 \\
& & \\
\hline \text { Volume } & & 9156.24 \mathrm{~mm}^{2}
\end{array}
$$

