We Revolve the region bounded by $y=x^{2}+4 x+5, x=0, x=3$ about the $y$-axis.
Shell Method:
$2 \cdot \mathrm{Pi} \cdot \int_{0}^{3} x \cdot\left(x^{2}+4 \cdot x+5\right) \mathrm{d} x$

$$
\begin{equation*}
\frac{315 \pi}{2} \tag{1}
\end{equation*}
$$

Disk (Washer) Method:
$\operatorname{Pi} \cdot \int_{5}^{26}\left(3^{2}-(-2+\operatorname{sqrt}(y-1))^{2}\right) \mathrm{d} y+45 \cdot \mathrm{Pi}$

$$
\begin{equation*}
\frac{315 \pi}{2} \tag{2}
\end{equation*}
$$

