38. $\left(a^{-\frac{1}{3}}\right)^{-\frac{1}{b_{3}}}=a^{\frac{2}{13}}=a^{\frac{1}{a}}$
33) $r=\left(\frac{3 V}{4 \pi}\right)^{\frac{1}{3}}$.
(33) $r=\sqrt[3]{\frac{3(413)}{4 \pi}}$

$$
r=4.62 \mathrm{in}
$$

22. $\sqrt[3]{62}=62^{\frac{1}{3}}$
23. $\sqrt[3]{5 x^{2} y}=\sqrt[3]{5} \sqrt[3]{x^{2}} \sqrt[3]{y}$

$$
=5^{1 / 3} x^{\frac{2}{3}} y^{\frac{1}{3}}
$$

(19) $\sqrt[5]{c^{2}}=(\sqrt[5]{c})^{2}$
(30) $8^{\frac{3}{2}} \cdot 8^{\frac{5}{2}}=8^{\frac{8}{3}}=8^{4}=$

$$
x^{2} \cdot x^{5}=x^{7}
$$

Step 1 - Isolate the radical
(1) Solve each equation.
a. $\sqrt{x+1}+2=4$

$$
\begin{array}{lr}
(\sqrt{x+1})^{2}=(2)^{2} & 2 \\
\sqrt{3+1}+2=4 \\
\sqrt{4}+2=\downarrow \\
2+2=4 \\
4+1 & =4
\end{array}
$$

2B. $(2 y+6)^{\frac{1}{4}}-2=0$

$$
\begin{gathered}
\sqrt[4]{2 y+6}-2=0 \\
(\sqrt[4]{2 y+6})^{4}=(2)^{4} \\
2 y+6=16 \\
2 y=10 \\
y=5
\end{gathered}
$$

$$
\begin{aligned}
& \text { b. }(\sqrt{x-15})^{2}=(3-\sqrt{x})^{2} \quad \sqrt{x} \cdot \sqrt{x}=\sqrt{x^{2}} \\
& (3-\sqrt{x})(3-\sqrt{x}) \\
& x-15=9-3 \sqrt{x}-3 \sqrt{x}+x \\
& \underset{-k}{*-15}=\underset{-9}{9}-6 \sqrt{x}+x \\
& \sqrt{16-15}=3-\sqrt{16} \\
& \sqrt{1}=3-4 \\
& \frac{-24}{-6}=\frac{-6 \sqrt{x}}{-6} \\
& 1=-1 \\
& (4)^{2}=(\sqrt{x})^{2} \\
& \infty \quad \text { nu soluxin } \\
& \text { p.425-426 } \\
& 11-18,21,23-28,39-40,42,46
\end{aligned}
$$

