18. 

$$
\begin{array}{rlr}
(\sqrt{2 t-7})^{2} & =(\sqrt{t+2})^{2} & \sqrt{2(9)-7}=\sqrt{9+2} \\
2 t-7 & =t+2 & -\sqrt{11}=\sqrt{11} \\
2 t & =t+9 & \\
t & =9
\end{array}
$$

27. $(3 x-2)^{\frac{1}{5}}+6=5$

$$
\begin{array}{cr}
\sqrt[5]{3 x-2}+6=5 & \sqrt[5]{3\left(\frac{1}{3}\right)-2}+6=5 \\
\left(\sqrt[5]{3 x-2)^{5}=(-1)^{5}}\right. & \sqrt[5]{-1}+6=1 \\
3 x-2=-1 & -1+6=\downarrow \\
3 x=1 & -5=5 \\
x-1 &
\end{array}
$$

$$
\begin{aligned}
& \text { 21. }(\sqrt{b+1})^{2}=(\sqrt{b+6}-1)^{2} \\
& (\sqrt{b+b}-1)(\sqrt{b+6}-1) \\
& b+1=b+b-\sqrt{b+b}-\sqrt{b+6}+1 \\
& \underset{-b-7}{b+1}=\underset{-b}{+7}+2 \sqrt{b+b} \\
& -6=-2 \sqrt{b+6} \\
& (3)^{2}=(\sqrt{b+b})^{2} \\
& q=b+b \\
& 3=b \\
& \sqrt{3+1}=\sqrt{3+6}-1 \\
& \sqrt{4}=\sqrt{9}-1 \\
& 2=3-1
\end{aligned}
$$

25. $(6 n-5)^{\frac{1}{3}}+3=-2$

$$
\begin{array}{ll}
\sqrt[3]{6 n-5}+3=-2 \\
(\sqrt[3]{6 n-5})^{3}=(-5)^{3} & \sqrt[3]{6(-20)-5}+3=-2 \\
6 n-5=-125 & \sqrt[3]{-125}+3=1 \\
6 n=-120 & -5+3=1 \\
n=-20 & -2=-2
\end{array}
$$

