$$
\begin{aligned}
& 8-28-13 \\
& 1^{\text {st }} \mathrm{Geo}
\end{aligned}
$$

Solving for a Variable

$$
\text { (1) } \begin{gathered}
6 n-1=5 n+7 \\
-5 n+5 d
\end{gathered} \begin{gathered}
n-1=7 \\
+1+1 \\
n=8
\end{gathered}
$$

(2)

$$
\begin{gathered}
2(3 n+1)=4 n+10 \\
6 n+2=\binom{4 n}{6 n}+10 \\
-4 n \\
2 n\binom{42}{-2}=-2 \\
\hline \frac{2 \cdot n}{2}=\frac{8}{2} \\
n=4
\end{gathered}
$$

(3)

$$
\begin{aligned}
& n+n+3+1=n+1+1+1+10 \\
& 2 n+4=n+13 \\
& -n \\
& \hline n+4=13 \\
& -4=-4 \\
& \hline n=9
\end{aligned}
$$

(4)

$$
\begin{gathered}
2 n+2 n+2 n=3+4+11 \\
\frac{6 \cdot n}{6}=\frac{18}{6} \\
n=3
\end{gathered}
$$

(5)

$$
\begin{aligned}
& 7(5 n-1)=3 n+2 n+1+22 \\
& 35 n-7=3 n+2 n+1+22 \\
& 35 n-7=\left(\begin{array}{l}
5 n \\
-5 n
\end{array}\right. \\
&-5 n \\
& 30 n-7=23 \\
&+7 \\
&+7 \\
& \frac{34 n}{30}=\frac{30}{30} \\
& n=1
\end{aligned}
$$

(6)

$$
\begin{gathered}
3(2 n-1)=2(2 n+10) \\
6 n-3=4 n+20 \\
-4 n \\
\hline 2 n+\binom{3 n}{+3}=20 \\
\frac{2 n}{2}=\frac{23}{2} \\
n=11 \frac{1}{2}
\end{gathered}
$$

