

| HW $0-4+n$ | (6) $-1=\frac{5+x}{6}$ |
| :---: | :---: |
| $\begin{array}{ll}\text { (4) } 0 & =4+\frac{n}{5} \\ & \text { (6) }\end{array} 1=\frac{5}{6}$ |  |
| -4-4 | $6 \cdot-1=\frac{5+x}{6} \cdot 6$ |
| then$n_{n}=-20$ |  |
|  | If $-11=x$ |
|  | $\underline{-}$ |
|  | $\begin{aligned} & -6=5+x \\ & -5 \\ & \hline-5 \end{aligned}$ |
|  | $-11=x$ |



| Ex2 $\quad 5 m-7=5 m$ | 2 | $\begin{aligned} & 6 m=6 m+1 \\ & -6 m-6 m \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: |
| .7 0 m |  | $\bigcirc \mathrm{m}=1$ |
| $-7=0$ <br> Not True! No Solution! |  | $0 \neq 1$ <br> No Solution |


| Ex3 $\begin{aligned} & 16=-(p-6) \\ & 16=-p+6 \\ & \frac{-6}{}+6 \\ & \frac{10}{-1}=\frac{-p}{-1} \\ & \text { If }-10=p \\ & \text { then } \\ & p=-10\end{aligned}$ | 3 | $\widehat{(x+3)}=20$ |
| :---: | :---: | :---: |
|  |  | $\begin{array}{r}-x-3=20 \\ +3 \quad+3 \\ \hline-x=23\end{array}$ |
|  |  | $\begin{aligned} & \frac{-x}{-1}=\frac{23}{-1} \\ & x=-23 \end{aligned}$ |
|  |  |  |

$$
\begin{array}{|c|c|}
\begin{array}{c}
8 m-3=6 m+7 \\
\frac{-6 m \quad-6 m}{2 m-3}=7 \\
+3+3
\end{array} & \begin{array}{c}
9 x+1=4 x-19 \\
\frac{-4 x}{}+4 x
\end{array} \\
\begin{array}{c}
\frac{2 m}{2}=\frac{10}{2} \\
m=5
\end{array} & \begin{array}{c}
\frac{5 x}{5}=\frac{-20}{5} \\
x
\end{array} \\
x=-19
\end{array}
$$



| $x 6 \quad 2(x-3)=3(x+6)$ | $6 \quad-8(x+1)=\cdot(-1-x)$ |
| :---: | :---: |
| $\begin{aligned} & 2 x-6=3 x+18 \\ & -2 x-2 x \end{aligned}$ | $\begin{aligned} & -8 x-8=1+x \\ & -x \quad-x \\ & \hline \end{aligned}$ |
| $\begin{gathered} -6=x+18 \\ -18 \\ -18 \end{gathered}$ | $\begin{aligned} &-9 x-8=1 \\ &+8+8 \\ & \hline \end{aligned}$ |
| $\text { If }-24=x$ <br> then $x=-24$ | $\begin{aligned} -9 x & =9 \\ -9 & =-1 \end{aligned}$ |



|  | $\overparen{-5(x+8)}=7(x-4)$ |  | $9(2 x+3)=\cdot 6(x+2)$ |
| :---: | :---: | :---: | :---: |
|  | $-5 x-40=7 x-28$ <br> $+5 x^{+5 x}$ <br> +50 |  | $18 x+27=-6 x-12$ $+6 x \quad+6 x$ |
|  | $\begin{aligned} -40=12 x-28 \\ +28 \\ +28 \end{aligned}$ |  | $\begin{array}{r}24 x+27 \\ -27-27 \\ \hline 24 x=-39 \\ \hline\end{array}$ |
|  |  |  | $24 x=-39$ |
|  | $\frac{-12}{12}=\frac{12 x}{12}$ |  | $24 \quad 24$ |
|  | -1 $=\mathrm{x}$ |  | $x=\frac{-39}{24}=\frac{-13}{8}$ |

Ex9 An equation is solved as shown. Between which two steps is an error made? Explain the error.

$$
\begin{aligned}
&-9(x-1)=3(x+9) \\
&-9 x-9) \text { Should bet } \\
&-3 x+27 \\
&-9=12 x+27 \\
&-36=12 x \\
&-3=x
\end{aligned}
$$

9 An equation is solved as shown. Between which two steps is an error made? Explain the error.

$$
\begin{aligned}
-4(x+7) & =2(x-4) \\
-4 x-28 & =2 x-8 \\
-28 & =-2 x-8 \\
-20 & =-2 x \\
10 & =x
\end{aligned}
$$

