For each of the following decide if the student has written a correct step or an incorrect step

$$
\begin{aligned}
& 4 x<12 \\
& \div 4 \quad \div \\
& x>3
\end{aligned}
$$

$$
\begin{aligned}
& -x<12 \\
& \div-1 \quad \div-1 \\
& x<-12
\end{aligned}
$$

$$
\begin{aligned}
& 12<-3 x \\
& \div-3 \div-3 \\
&-4>x
\end{aligned}
$$

$$
\begin{gathered}
x+4<12 \\
-4 \quad-4 \\
x>8
\end{gathered}
$$

$$
\begin{array}{r}
12<3 x \\
\div 3 \div 3 \\
4<x
\end{array}
$$

$$
\begin{gathered}
-4 x>12 \\
\div-4 \quad \div-4 \\
x<-3
\end{gathered}
$$

$$
\begin{aligned}
x-4< & 12 \\
+4 & +4 \\
x & <16
\end{aligned}
$$

$-4 x>-12$
$\div-4 \div-4$
$x<3$

Now solve these inequalities


