$\qquad$

Solve for $x$, by subtracting to both sides.


| Both sides: The Left Hand |
| :--- |
| Side and the Right Hand |
| Side of the Equal Sign |

$\begin{aligned} & x+\not p=9 \\ &-\neq \text { Cross it off }\end{aligned} \quad 5-5=0$

Short Forms
$x+5=9$
$-5=-5$
$x=4$
$x+5=9$
$x=9-5$
$x=4$

$$
x=9-5
$$

$x=4$ Circle Answer

Check Answer

$$
\begin{aligned}
x+5 & =9 \\
(4)+5 & =9 \\
9 & =9
\end{aligned}
$$

Question
Substitute with Brackets
Left Hand Side Must Equal Right Hand Side

## Solve for $\boldsymbol{x}$, by adding to both sides.

$x-3=7$
$x-3=7$
$+3+3$

## Solve for $\boldsymbol{x}$ If you

$x-\not \beta=7$
$+\not \beta+3$
$x=7+3$

$$
x=10
$$

Add 3 to both sides
$x-3=7 \quad$ accidentally get
$\begin{array}{ll}-7 & -7\end{array}$ it equal to zero
$x-10=0 \quad$ just keep going!
$+10+10$
$x=10$

Cross it off
We are always doing the opposite operation to both sides of the equation


$$
-x+2=5
$$

$$
-x+2^{2}=5
$$

$$
-8 \quad-2
$$

Subtract 2 from both sides

$$
-x=3
$$

$$
\frac{f^{x}}{-1}=\frac{3}{-1} \quad \begin{aligned}
& \text { Divide both sides by }-1 \\
& \text { Cross it off }
\end{aligned}
$$



$$
\begin{aligned}
& \text { Alternate Solution } \\
& \begin{array}{rll}
-x+2=5 & \\
+x & +x & \text { Add } x \text { to both sides } \\
2=5+x & \\
-5 \quad-5 & \text { Subtract } 5 \text { from both sides } \\
-3=x & \text { Divide both sides by }-1 \\
x=-3 & \text { Mirror } \\
x & \\
\hline 5+x=5+x & \text { Can't add unlike terms! } \\
\hline
\end{array}
\end{aligned}
$$

