Equation Solving Examples

ExT

$$
\begin{array}{cc}
\frac{\partial c}{5}=-\frac{50}{5} & \text { dividing } 5 c \\
\text { by } 5 \\
c=-10 & \text { "cancels "it } \\
\text { out }
\end{array}
$$

Ex $\frac{d z}{-g 7}=\frac{45}{-9}$

- do the same
on each side of $=$
Ex $3 x+2^{-2}=5^{-2}$

$$
\begin{gathered}
\frac{3 x}{3}=\frac{3}{3} \\
\frac{x=1}{8-2}
\end{gathered}
$$

Ex $\quad 2 b+8$ - $22-8$

$$
\begin{aligned}
\frac{2 b}{2}=\frac{14}{2} & \text { step } \\
b=7 & \text { step } 2
\end{aligned}
$$

Ex 5

$$
\begin{aligned}
& 3 y-2^{+2}=4^{+2} \\
& \frac{\beta y}{}=\frac{6}{3} \\
& y=2
\end{aligned}
$$

Ex 6 $3 b-5^{+5}=22+5$

$$
\begin{gathered}
\frac{3 b}{38}=\frac{27}{3} \\
b=9 \\
-18+4-(-4)=-14 \\
2 x-4
\end{gathered}
$$

TEST EX 1

- deal with

$$
2 \times 5
$$

$$
2 x+4^{-4}=-14^{-4}
$$ brackets first

$10+4$ $=14$
Wrong!


This was a 3 step!

Ex 8 $\quad 3 x+(-8)=-29$
Test $3 x-8^{+8}=-29^{+8}$

$$
\begin{array}{r}
3 x-7 \\
-21-8=-29 \quad \frac{3 x}{3}=-\frac{21}{3} \\
x=-7
\end{array}
$$

Ex 9 $8 \cdot \frac{b}{8}=2.8$

- multiply both sides to get

$$
b=16
$$ variable by itself.

Ex 10 $\begin{aligned} x \cdot \frac{b}{\not 2 z} & =6(12) \\ b & =72\end{aligned}$

