Definition -1) An equation is a statement that two expessions are equal.
2) A solution to an equation is a value (or set of values) for the variables in it that male the equation true

ANY ORDER S Commotatue Law for Addition t thill ANH grouping \{ Associative Low.

Additive identity and multipheatic identity anent
"inverses ". inverses DISTRIBUTIVE LAW

$$
a(b+c)=a b+a c
$$

Roles abut inequality negative $x$ negative = positive outer of apeatives calvellation in equations reduany

Responses

- Ask student to plug in values and click their work.
-Why nat use a afferent Sachorizahm at * (e.g. $4 \times 1$ or $(\times 4)$

$$
\begin{array}{r}
x^{2}-3 x-4=0 \\
x^{2}-3 x=4
\end{array}
$$

- Why you did yous move

$$
\begin{aligned}
& x(x-3)=4=2 \cdot 2 \\
& x=2 \text { or } x-3=2 \\
& x=2,5
\end{aligned}
$$

the 8 in the Gat place?

- What dues the worn mean?

If $\frac{(x-4)}{A} \frac{(x+1)}{B}=0$ hen $x-4=0 \& x_{1}=0$ IF. $\dot{A} \cdot B=0$ then $A=0$ or $B=O$ If $A-O \sim B=0$ then $A B=0$. $A \cdot B=0$ ont $A A=0$ or $B=0$

$$
P \Rightarrow Q
$$

$$
Q \Rightarrow P^{4}
$$

