whence we derive this practical rule: To obtain the resultant of the elimination of $x$ in this case, it is sufficient to equate to zero the product of the coefficients of $x$ and $x^{\prime}$, and add to them the term independent of $x$.
32. The Case of Indetermination.-Just as the resultant

$$
a b=\circ
$$

corresponds to the case when the equation is possible, so the equality

$$
a+b=0
$$

corresponds to the case of absolute indetermination. For in this case the equation both of whose coefficients are zero $(a=0),(b=0)$, is reduced to an identity $(0=0)$, and therefore is "identically" verified, whatever the value of $x$ may be; it does not determine the value of $x$ at all, since the double inclusion

$$
b<x<a^{\prime}
$$

then becomes

$$
0<x<\mathrm{I}
$$

which does not limit in any way the variability of $x$. In this case we say that the equation is indeterminate.

We shall reach the same conclusion if we observe that $(a+b)$ is the superior limit of the function $a x+b x^{\prime}$ and that, if this limit is 0 , the function is necessarily zero for all values of $x$,

$$
\left(a x+b x^{\prime}<a+b\right)(a+b=0)<\left(a x+b x^{\prime}=0\right)
$$

Special Case.-When the equation contains a term independent of $x$,

$$
a x+b x^{\prime}+c=0,
$$

the condition of absolute indetermination takes the form

$$
a+b+c=0 .
$$

For

$$
\begin{aligned}
a x+b x^{\prime}+c & =(a+c) x+(b+c) x^{\prime}, \\
(a+c)+(b+c) & =a+b+c=0 .
\end{aligned}
$$

