(a) Solve algebraically
$x y=4$
$y=x+3$
(b) Solve algebraically
$x y=-8$
$x+y=2$
(c) Solve algebraically
$x y+12=0$
$x=2-2 y$
(a) Solve algebraically $\quad y=\frac{3}{x}$
$2 x=y-1$
(b) Solve algebraically
$y=\frac{4}{x}-2$
$x=4 y+8$
(c) Solve algebraically
$y=\frac{4}{x}+x$
$x+y=6$
(a) Solve algebraically $x^{2}+x y=20$ $x=4 y$
(b) Solve

$$
\begin{aligned}
& x^{2}+y^{2}-x y=16 \\
& x+y=4 \\
& x^{2}-y^{2}=4+x y \\
& y=2 x-6
\end{aligned}
$$

(c) Solve

> The diagram shows the graphs of $y=x+\frac{9}{x}$ and $x+y+11=0$. Find the coordinates of the points of intersection.

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