Linear Systems:
The last two classes we have solved linear systems $\qquad$ , by finding their
$\qquad$
$\qquad$ -.

However, graphing isn't always the best method for finding an $\qquad$ solution.

Today: We are going to learn an algebraic method to solve linear systems called
$\qquad$ -.

Ex. 1 Solve the following linear systems.
a)

$$
\begin{gathered}
y=x+1 \\
3 x+2 y=-3
\end{gathered}
$$

b) $\quad y=3 x-1$
$y=-x+7$

Step 1:

Step 2:
Step 2:

Step 3:
Step 3:

Ex. 2 Ben is offered two weekly salary plans:
Plan A:
$\mathrm{y}=850+0.04 \mathrm{x}$

a) Define each variable.
b) Solve by substitution.
c) For what amount of weekly sales are the salary plans the same? What is the weekly salary?

Try on your own:
Solve the following linear system by substitution:
$y=-5 x-1$
$3 x+2 y=12$

