$\begin{aligned} & \text { Example } \quad \text { Solve } 3 x+10 y=2 \\ & x-2 y=6\end{aligned}$
First, determine which equation has the easiest variable to solve for. I'm choosing $x$ in the second equation because its' coefficient is 1 . Make it easy or you will end up with fractions - think first!

$$
\begin{aligned}
3 x+10 y & =2 \\
x-2 y & =6,
\end{aligned} \quad \text { solving for } x, \quad x=6+2 y
$$

Everywhere you see an $x$ in the OTHER equation, substitute $6+2 y$. The other equation is:

$$
\begin{array}{ll}
3 \mathrm{x}+\quad 10 \mathrm{y}=2 & \text { Given } \\
3(6+2 y)+10 y=2 & \text { Substitute } \\
18+6 y+10 y=2 & \text { D-Prop } \\
18+16 y=2 & \text { Now in } a x+b=c \text { format } \\
16 y=-16 & \\
y=-1 &
\end{array}
$$

Substitute $\mathrm{y}=-1$ into either of the original equations, you find $\mathrm{x}=4$. $(4,-1)$.

