## Algebra I <br> 8-2 <br> Graphing Equations: Plotting Points


*2) $2 x+y=6$
Choose any value for $x$,

$$
\begin{aligned}
& 2(0)+y=6 \\
& 2(1)+y=6 \\
& 2(2)+y^{2}=6 \\
& 2(3)+\dot{y}=6
\end{aligned}
$$

$$
\begin{gathered}
2 x+y=6 \\
2 x-2 x+y=-2 x+6 \\
y=-2 x+6 \\
y=-2(0)+6=6=9 \\
y=-2(1)+6=4=9
\end{gathered}
$$

It may be easier to find the points if you get a variable on a side by itself. You don't need to do this. It is personal preference.
*3) $x=4$
$x=$ line, it has to cross the x-axis, and it will be vertical.
*4) $x=-2$
*5) $y=-3$

$$
\begin{aligned}
& y= \text { lines must cross } \\
& \\
& \text { the y-axis and } \\
& \text { will be horizontal. } \\
& \\
& \\
& \\
& \\
& \\
& \\
& \\
& \\
& \\
& \\
& \\
&
\end{aligned}
$$


*7) $y=x^{2}-3$


## Handout

