Solving Equations for $y$ in terms of $x$
Examples
Solve the following equations for $y$ in terms of $x$.
1.) $\frac{2 y}{2}=\frac{4 x}{2}-\frac{6}{2}$ isolate $y$

$$
y=m x+b
$$

$y=2 x-3$
2.) $2 x+y=5-2 x b=-3$
$2 x+y=-2 x$

$$
\begin{gathered}
y=-2 x+5 \\
\uparrow \quad \uparrow \\
m \quad b=5
\end{gathered}
$$

3.)

$$
\begin{aligned}
& x^{x}-y=8^{-x} \\
& \frac{-y}{-1}=\frac{-x}{-1}+\frac{8}{-1} \quad \text { or multiply by }(-1) \\
& y=x-8 \\
& m=1 \quad b=-8
\end{aligned}
$$

4.) $-3 x-2 y=-1^{+3 x}$

5.) $x-4 y=3$

$$
\begin{aligned}
\frac{-14 y}{-4} & =\frac{-x}{-4}+\frac{3}{-4} \\
y & =\frac{1}{4} x-\frac{3}{4}
\end{aligned}
$$

