6.4 Solving Linear Inequalities by Using Addition \& Subtraction
May 28, 2015 11:44 AM
The strategy we use to solve equations can be used to solve inequalities
$\rightarrow$ Isolate the vanable
L SOLVE I

EQUATION

$$
\begin{gathered}
r-6=-2 \\
+6=+6 \\
r=4
\end{gathered}
$$

Ex \#1
$\frac{E x}{\text { Solve and graph }}$
(a) $6 \leq x-4$
ve-write

$$
\begin{array}{r}
x-y \geqslant 6 \\
+y+4 \\
x \geqslant 10
\end{array}
$$


inequality

$$
\begin{gathered}
r-16<-2 \\
+16 \quad+6 \\
r<4
\end{gathered}
$$

Ex.\#2
solve

$$
\frac{x^{x y}}{4}+\frac{11}{2}<\frac{7}{4}<x
$$

$$
\begin{array}{r}
x+\frac{44}{2}<7 \\
x+2 \nless 7 \\
-2 / 2-22 \\
x<-15
\end{array}
$$

$$
\operatorname{pg} 298 \# 4-9.11
$$

