Solve for $x$.

1. $4 x>16$
2. $13-x>15$
3. $15 \mathrm{x}-20 x<25$
4. $12+2 x>24-x$
5. $7<-14-3 x$


## Practice Drill 20—Manipulating an Inequality

1. $x>4$

To isolate $x$, divide both sides by 4 . The sign doesn't change!
2. $x<-2$

To isolate $x$, subtract 13 from both sides. Then divide both sides by -1 . Since you divided by a negative number, flip the sign.
3. $x>-5$

First, combine like terms to get $-5 x<25$. Then divide both sides by -5 . Since you divided by a negative number, flip the sign.
4. $x>4$

To isolate $x$, add $x$ to both sides. Subtract 12 from both sides. Then divide both sides by 3 . The sign doesn't change!
5. $\quad x<-7$

To isolate $x$, add $3 x$ to both sides. Subtract 7 from both sides. Then divide both sides by 3 . The sign doesn't change!

