## Section 2.6 Focus Exercises

1. Switch sides and change the direction of the inequality sign; do not solve.
a) $-3<x$
b) $6 \geq y-8$
c) $5-4 m>2 m-3$
2. Multiply each side by -1 and change the direction of the inequality sign; do not solve.
a) $-\mathrm{w}<9$
b) $-\mathrm{x} \geq-3$
c) $12 \leq-4 x$
d) $-15>-3 y$
e) $-2 p+7 \leq-9$
f) $7-k<-4 k-8$
3. Solve each of these inequalities. Be sure to write the solution with the variable on the left and draw its graph on the number line provided.
a)
$y-3 \geq 2$
b) $\quad-\mathrm{x}+1 \leq-7$

c) $\quad-3 m>-6$
d) $\quad-10<\mathrm{c}-6$

e) $10>-5 p$
f) $\quad-6 \leq 2-\mathrm{x}$

4. Solve each of these inequalities. Be sure to write the solution with the variable on the left and draw its graph on the number line provided.
a) $4 x<3 x-6$
b) $x-6 \leq 2 x+5$

c) $-2(y-3) \geq 1+3 y$
d) $11-4 \mathrm{x}>3(\mathrm{x}-1)$

e) $\quad \frac{3}{4} x+\frac{4}{3} \leq 1+\frac{5}{6} x$

