## Quadratics 7 - Solving Quadratic Inequalities

Homework \#2
Per $\qquad$ Date $\qquad$
Write your answer in the three standard forms (complete sentence, set notation, and interval notation).

1. Using the graph to the right, solve for $x$ such that $x^{2}-x-6 \leq 0$

2. Using the graph to the right, solve for $x$ such that $x^{2}+4 x+2>-1$

3. Solve for $x$ such that $-(x+2)(x-4)<0$.

4. Solve for $x$ such that $2(x-1)^{2}-2 \leq 0$.
5. Solve for $x$ such that $x^{2}-x-5 \geq 0$.
6. Using the graph to the right
a. Solve for $x$ when $f(x)=g(x)$
$x=$ $\qquad$
b. Solve for $x$ when $g(x)>f(x)$. Write your answer in one of the three forms.

