Graphs and Equations

Solving Inequalities Graphically

Solving Absolute Value Inequalities Graphically

Solve the following equations and inequalities graphically.

a) $|2x+3|=5$

The solution set is _____

b) $|2x+3|<5$

The solution set is _____

c) $|2x+3|\geq 5$

The solution set is _____

Solving Quadratic Inequalities Graphically

Solve the following equations and inequalities graphically.

a) $-x^2+3x+6=2$

The solution set is _____

b) $-x^2+3x+6\le 2$

The solution set is _____

c) $-x^2+3x+6>2$

The solution set is _____

Solving Quadratic Inequalities Graphically

Let $f(x)=\frac{1}{4}x^2-\frac{4}{3}x-5$ and $g(x)=\frac{1}{5}x+2$. Use graphing technology to determine the following.

a) What are the points of intersection for $f(x)$ and $g(x)$?

b) Solve $f(x)=g(x)$.

The solution set is _____

c) Solve $f(x)\geq g(x)$.

The solution set is _____

d) Solve $f(x)<g(x)$.

The solution set is _____