

Absolute Value Inequalities

Discussion Questions

These sample discussion questions were submitted by students. They can be used as part of a class discussion, as an essay topic, or as a student project idea.

- If you wished to graph an absolute value inequality, describe how your graph would be altered if you changed the signs of the inequality (for example, if $x > 2$ became $x < 2$). What example in real life might illustrate this change? – *submitted by Lianne Blodgett*
- Absolute value inequalities change a single inequality into a compound inequality or two separate inequalities (i.e. $|f(x)| > c$ could lead to $a < x < b$ OR $a > x$ or $b < x$). What would happen if you had an absolute value compound inequality (i.e.: $a < |f(x)| < b$)? What different types of bounds are possible? – *submitted by Mark Holmstrom*