

# Graphing Absolute Value Inequalities Worksheet

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a no nonsense practical guide to help you improve your algebra skills with solid instruction and plenty of practice practice practice makes perfect algebra presents thorough coverage of skills such as handling decimals and fractions functions and linear and quadratic equations inside you will find the help you need for boosting your skills preparing for an exam or re introducing yourself to the subject more than 500 exercises and answers covering all aspects of algebra will get you on your way to mastering algebra

this book starts with simple arithmetic inequalities and builds to sophisticated inequality results such as the cauchy schwarz and chebyshev inequalities nothing beyond high school algebra is required of the student the exposition is lean most of the learning occurs as the student engages in the problems posed in each chapter and the learning is not linear

the central topic of inequalities is linked to others in mathematics often these topics relate to much more than algebraic inequalities there are also secret pathways through the book each chapter has a subtext a theme which prepares the student for learning other mathematical topics concepts or habits of mind for example the early chapters on the arithmetic mean geometric mean inequality show how very simple observations can be leveraged to yield useful and interesting results later chapters give examples of how one can generalize a mathematical statement the chapter on the cauchy schwarz inequality provides an introduction to vectors as mathematical objects and there are many other secret pathways that the authors hope the reader will discover and follow in the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life msri and the ams are publishing books in the mathematical circles library series as a service to young people their parents and teachers and the mathematics profession

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