



Practice – 1

Once you feel confident with quadratic inequalities, complete problems 1 to 4. Check your answers by going to the Solutions tab in Moodle.

Instructions: Answer each of the following practice questions on a separate piece of paper. Step by step solutions are provided under the Solutions tab. You will learn the material more thoroughly if you complete the questions before checking the answers.

1. Find the solution to the inequality $2x^2 - 3x - 2 \geq 0$ by graphing.
2. Solve $-2x > -x^2 + 3$ algebraically.
3. Find the solution to the inequality $x^2 - 3x - 4 > 0$ using sign analysis.
4. A highway on-ramp is being constructed to make a right angle triangle. The vertical side must be 7 m shorter than the horizontal side. What height will ensure the ramp is more than 13 m long? Draw a diagram to aid in setting up an appropriate model.