

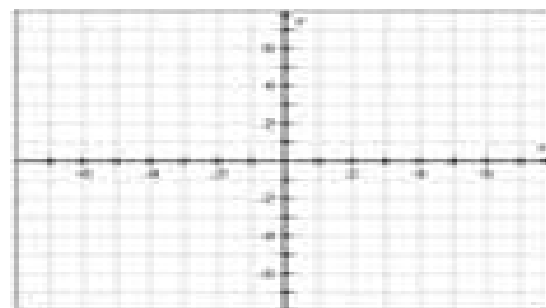
Lesson 7.9: Systems of Inequalities & Linear Programming

In this lesson we will explore systems of inequalities and applications of optimization. The strategy of finding minimum and maximum values of a quantity, given a set of constraints, is known as **linear programming**. A linear programming problem consists of a linear **objective function** and a system of linear inequalities called **constraints**.

Graphing Quadratic Inequalities

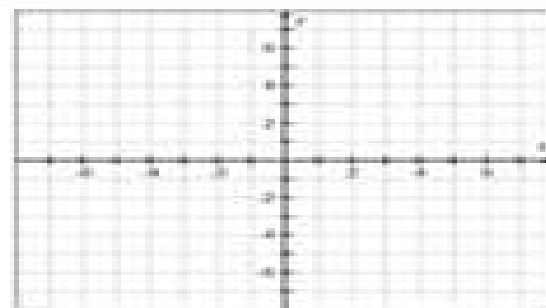
EX #1: Sketch the graph of the solution of the system.

$$\begin{cases} x - y^2 \geq 0 \\ x - y < 2 \end{cases}$$



EX #2: Sketch the graph of the solution of the system.

$$\begin{cases} y \geq x^2 - 4x + 3 \\ y < -x^2 + 2x + 3 \end{cases}$$



Feasible Regions

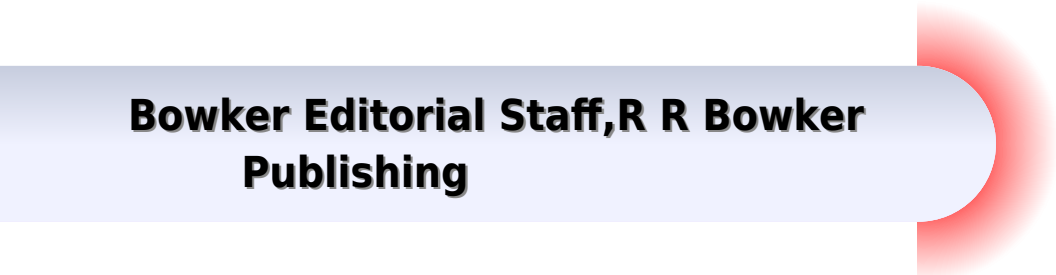
The objective function gives the quantity that is to be maximized or minimized. The constraints determine the set of **feasible solutions**. A **feasible region** is the shaded polygonal area created by the intersection of the graphs of inequalities. It is the location where every constraint is satisfied.

Any region that can be contained within a defined region, or space, by the vertices of a feasible region is said to be **bounded**.



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