

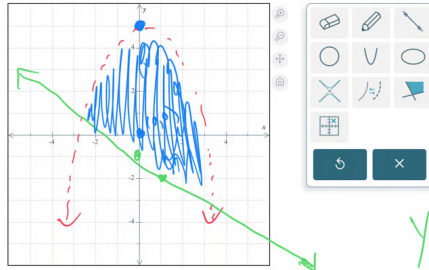
Algebra /

Graphing a system of nonlinear inequalities: Problem type 2

Graphing a system of nonlinear inequalities: Problem type 1

Graph the solution to the following system of inequalities.

$$\begin{cases} y \geq -x - 1 \\ y + x^2 < 5 \end{cases}$$



$$0 + 0^2 < 5 \quad 0 < 5 \text{ true}$$

$$y + x^2 < 5$$

$$-x^2 \quad -x^2$$

$$y < -x^2 + 5$$

opens down (0, 5)

$$y \geq -x - 1$$

$$m = -1$$

$$b = -1$$

$$0 \geq -0 - 1$$

$$0 \geq -1$$

true