

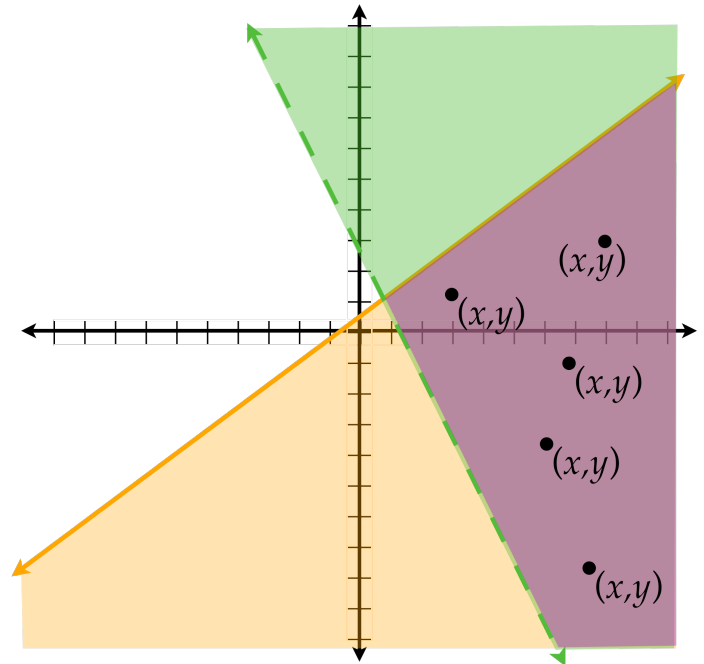
## Solving a System of Two Linear Inequalities

## Solving a System of Linear Inequalities

Graph the Inequalities and shade

The **solution** is the intersection of the **shaded region**

The shaded region represents **all ordered pairs**  $(x,y)$  that satisfies both **inequalities**

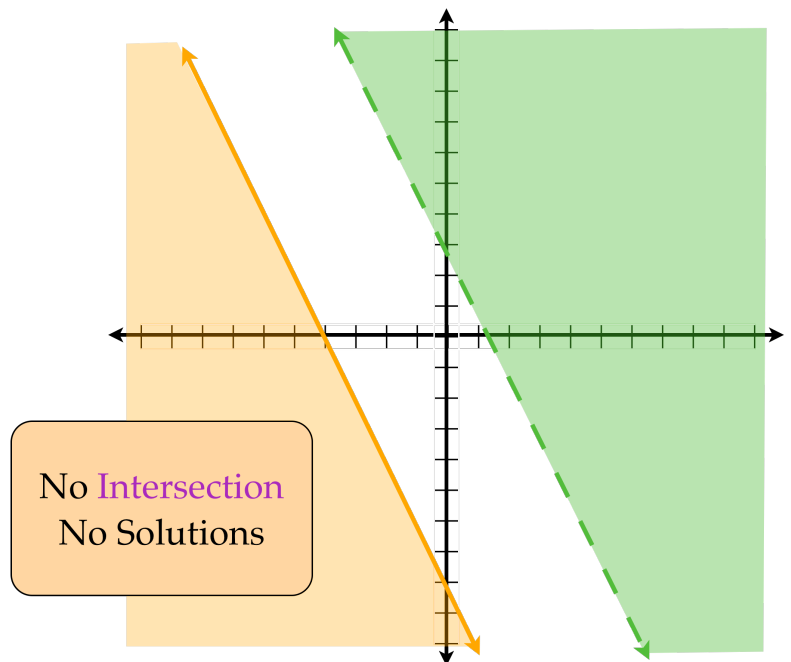


## Solving a System of Linear Inequalities

Graph the Inequalities and shade

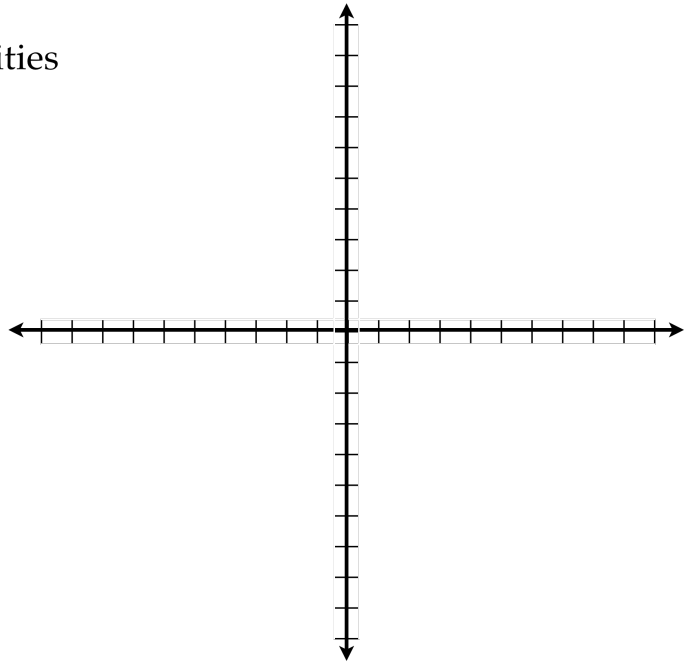
The **solution** is the intersection of the **shaded region**

The shaded region represents **all ordered pairs**  $(x,y)$  that satisfies both **inequalities**



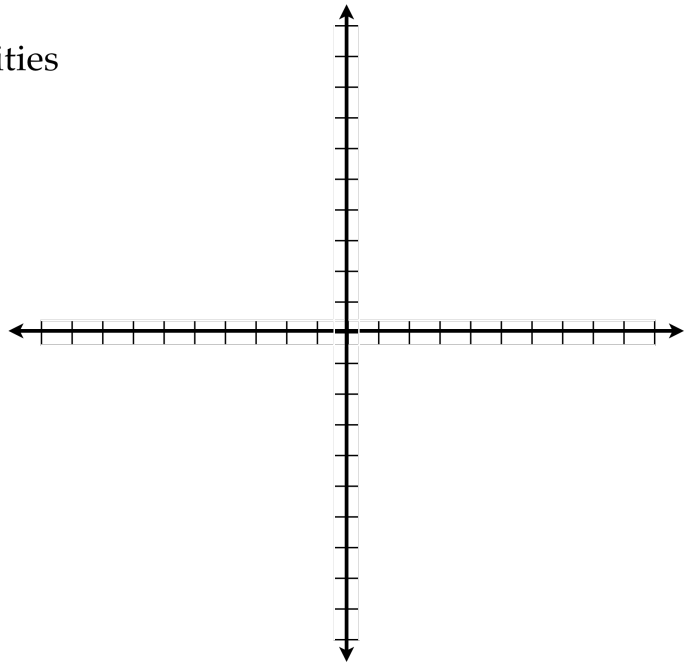
Graph the following system of linear inequalities

$$x + y > 5 \quad -2x + y \leq -1$$



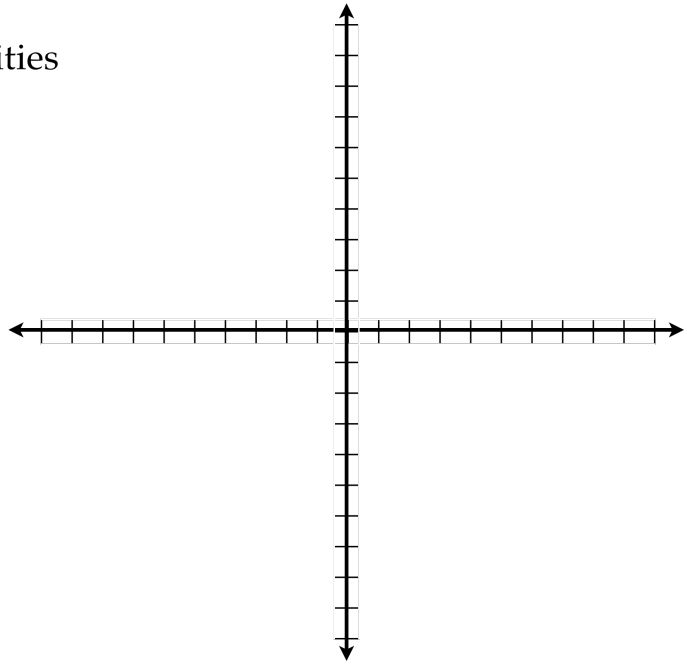
Graph the following system of linear inequalities

$$4x - y < 2 \quad -4x + 2y \leq 4$$



Graph the following system of linear inequalities

$$3x + y \leq 2 \quad 3x + y \geq 4$$



Graph the following system of linear inequalities

$$2x + y > -2 \quad 2x + y \geq 2$$

