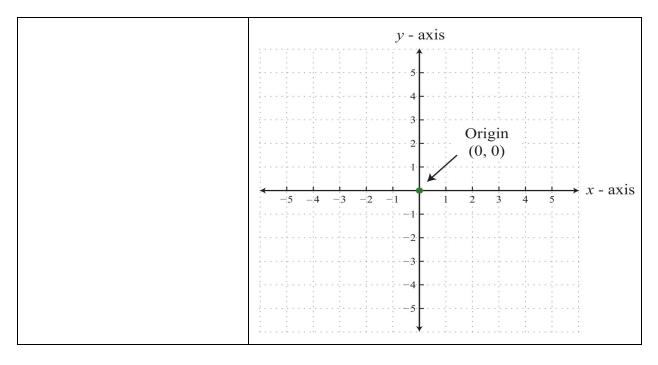
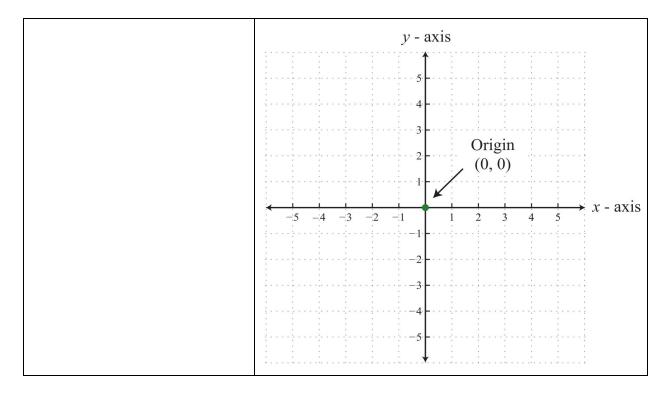
6.2 Graphing a System of Linear Inequalities

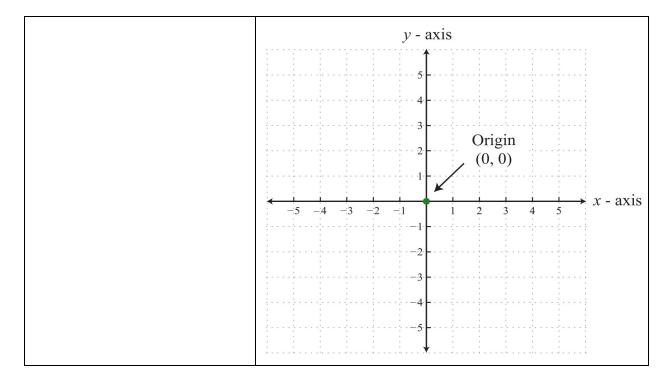
A linear equation in two variables is.....?



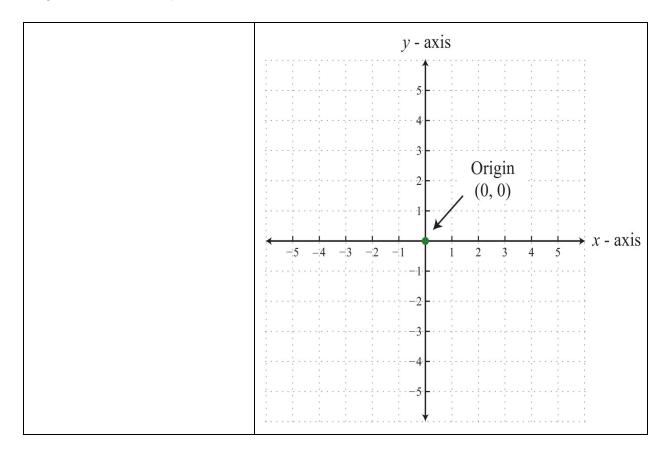
A system of linear equations in two variables is.....?



A linear inequality in two variables is.....?



A system of linear equalities in two variables is.....?



Ex.1. Graph the given system of linear inequalities.

$$\{\,(x,\,y)\mid \ x-y\ \geq 15,\ x\,\in\,R,\,y\,\in\,R\,\}$$

$$\{(x, y) \mid y \ge 10, x \in R, y \in R\}$$

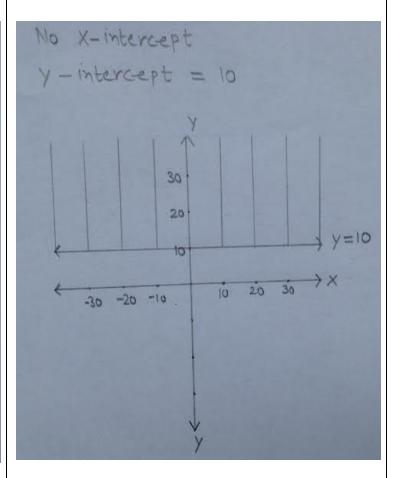
Step. 1 Graph each inequality on different coordinate plane.

Graph of $x - y \ge 15$

Graph the given inequality following exercise 6.1

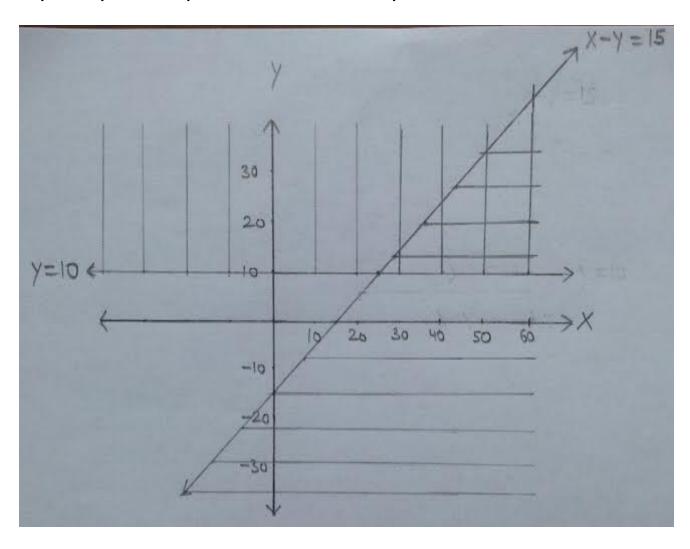
Graph the given inequality following exercise 6.1

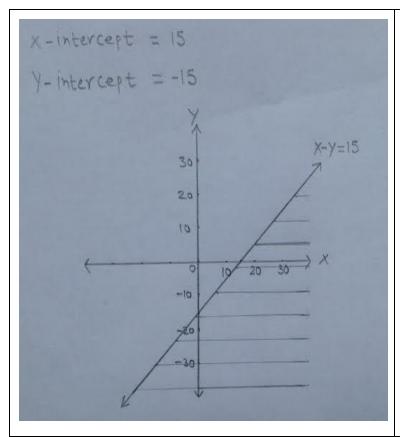
x-intercept = 15 y-intercept = -15 x-y=15 y=10 y

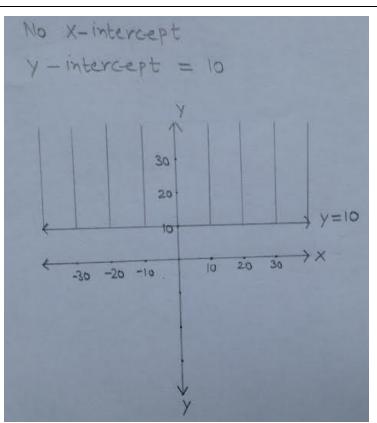


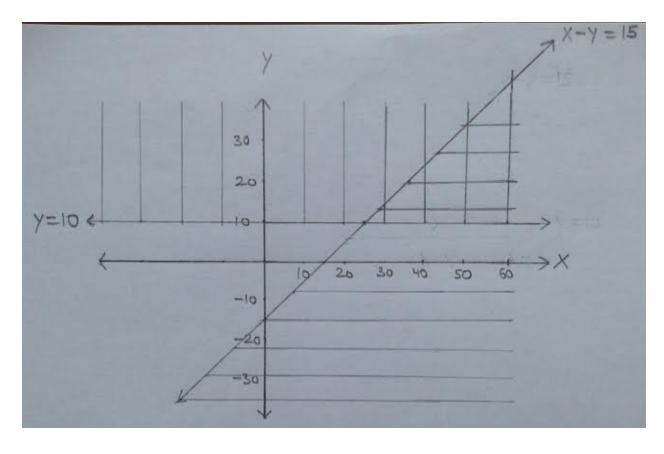
Graph of $y \ge 10$

Step. 2. Graph both inequalities on same coordinate plane.









Classwork # 1, 2 (P.307)

Homework # 4 (P.318)