Essential Question: How do we graph systems of linear inequalities?

Do Now: Graph the following linear inequalities.



System of Linear Inequalities:

A solution of a system of linear inequalities is an ordered pair that is a solution in each inequality (works algebraically when substituted into both inequalities).

Graph the system of inequalities.

 $y \ge x - 2$

y < x + 1



Examples: Graph the following systems of inequalities.

1.
$$x \ge -1$$
2. $2 - y \ge 3x$ $y > x - 2$ $2y < 2x$







For examples 4-6, write a system of inequalities that defines the shaded region.

