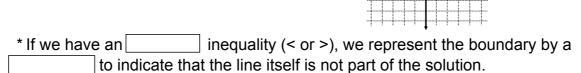
9.1 Inequalities in Two Variables

Symbols of inequal	lity:
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* graphically,
$$x \le 5$$
 looks like: \leftarrow

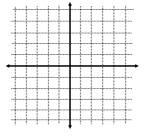
* A linear inequality in two variables however, describes an on a cartesian plane either above or below the line:

ex.
$$y \le x - 2$$
 looks like...

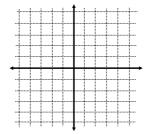


* To determine which side of the boundary is shaded, simply test a coordinate to see if it satisfies the inequality

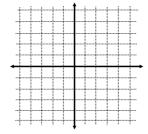
ex. graph
$$y > 0.5x + 1$$



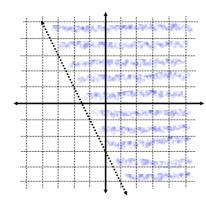
ex. graph
$$10x - 5y > 15$$



Your turn pg. 468



- ex. What inequality is represented here?
 - get equation of line



- is the boundary inclusive?
- test a point to determine direction of sign

your turn pg. 469

