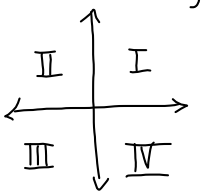
Review of Linear Inequalities

- Look at the range and domain to decide what quadrant(s) your solution will be in. Many problems will be in quadrant I



- Are the values discrete or continuous?
  ($\in W, \in I$) ($\in R$)

- Draw the boundary line

  $y = mx + b$ (m: slope, b: y-intercept) $2x + 5y = 10$ find your x and y-intercepts.

  Watch out for vertical lines ($x = ?$)
  horizontal lines ($y = ?$)

- Dashed line or solid line for the boundary line
  ($<$ $>$) ($\leq$ $\geq$)

- Shade the half plane that satisfies the inequality

  $y \geq$ stuff (shade above)
  $y \leq$ stuff (shade below)

  $2x + 5y \leq 10$ (test something like (0,0))
  If (0,0) satisfies the inequality then shade the half-plane containing (0,0)

- system of inequalities
  ↳ The overlap of the shaded regions is called the feasible region.

REVIEW for QUIZ

- Read over p321 - 322
- Do p323