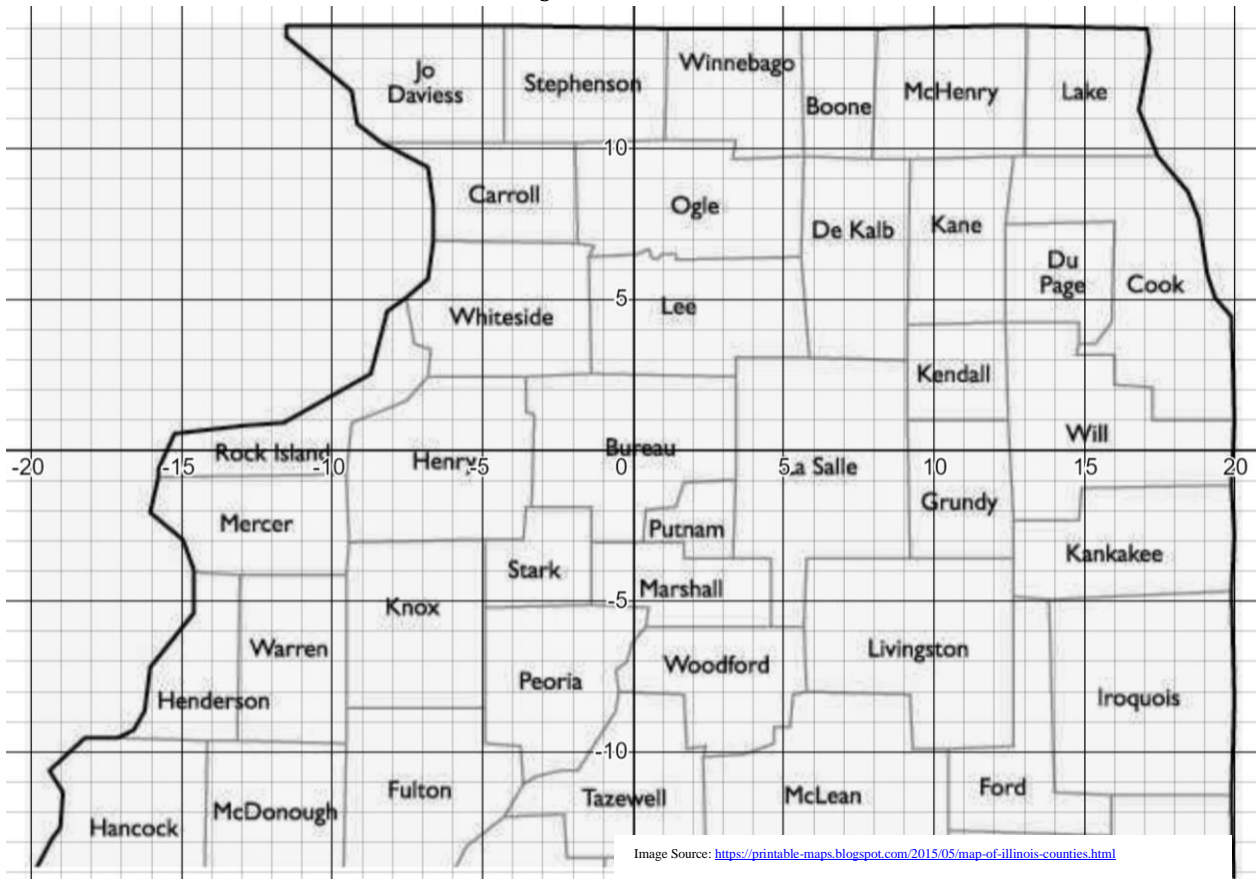


Systems of Linear Inequalities
Perfect Storm

Two storms are approaching Northern Illinois. One storm, modeled in blue, by $y < \frac{1}{2}x - 5$, is bringing forth hail. A second storm, modeled in red, by $y \geq -\frac{2}{5}x + 4$, is bringing forth high winds with possible tornados.



- Graph the two storms using the respective color designations on the map above.
- Identify three counties that can expect to receive hail, but not a possible tornado.
- Should all residents of Lee County prepare for a possible tornado? Explain.
- Identify three counties that will not be impacted by either storm.
- How many counties will potentially experience both hail and a possible tornado?
- What is the difference between a tornado watch and a tornado warning?
- What should you do if you need to take cover from a tornado?
- Go to <https://www.desmos.com/calculator/sqn5vhqvqx>.
Check your graph and answers to the questions above using Desmos and other online resources.