Systems of Inequalities Skills check (6.1🡪6.3) Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_



1. Graph the following inequality. Show all algebraic work.

$$\left\{x-3y>0, x\in W, y\in W\right\}$$

1. Graph the following system. Show all algebraic work. Identify two possible solutions

$$\left\{x+2y\leq 6, x\in R, y\in R\right\}$$



1. Carol is setting up her social networking page:
* She wants no more than 400 friends on her social networking page.
* She also wants to have at least 4 school friends for every rugby friend.
1. Define the variables and write a system of inequalities that models this situation.
2. What are the restrictions on the variables?
3. Graph the solution set and determine 1 possible combination of school friends and rugby friends she could have.

