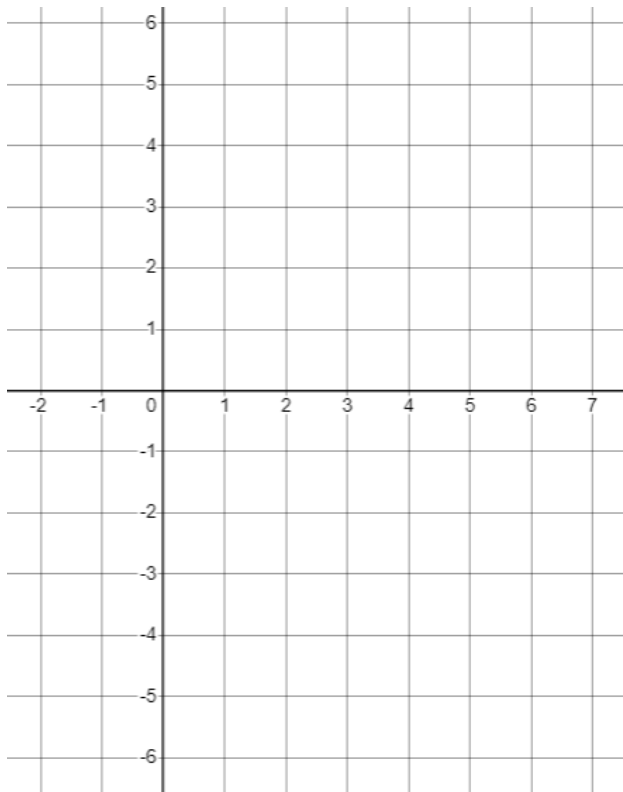


Linear Inequalities – Regions – www.m4ths.com

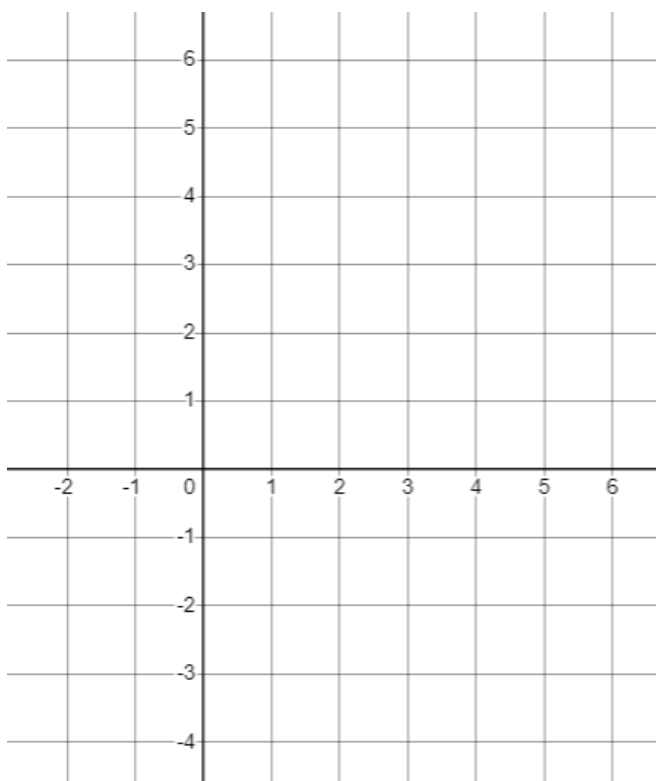
(1) List ALL the integer pairs for x and y satisfy the 4 inequalities below. Use a graph to help!

$$x + y < 6 \quad x - y \leq 6 \quad 1 < x \leq 4 \quad y \geq -2$$

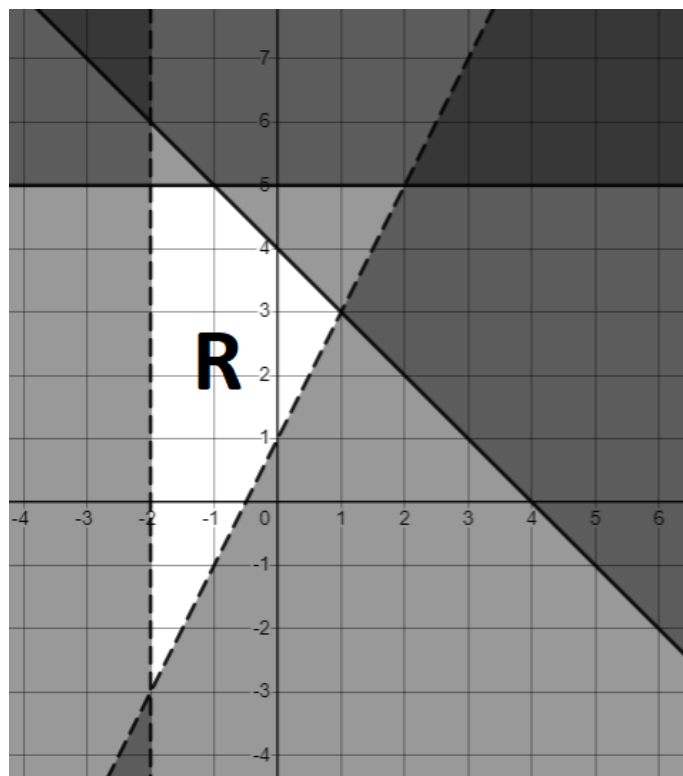


(2) List ALL of the integer pairs for x and y satisfy the 3 inequalities below. Use a graph to help!

$$y < 3x - 1 \quad y \leq 2 - x \quad y \geq -3$$

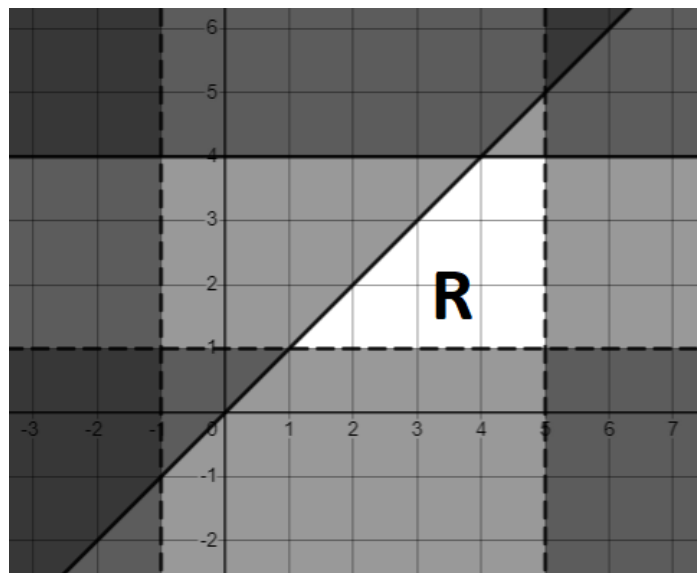


(3) List the 4 inequalities that satisfy the region R



(4) (a) State the only integer coordinates that satisfy the inequality shown below in the Region R.

(b) Find the 4 inequalities that make up the region R



(5) The only integer pairs to $a \leq x < b$ and $c < y \leq d$ are $(-1,1)$ $(0,1)$ $(1,1)$ $(-1,0)$ $(0,0)$ $(1,0)$ $(-1,-1)$ $(0,-1)$ $(1,-1)$ $(-1,-2)$ $(0,-2)$ and $(1,-2)$. Find the values a, b, c and d .