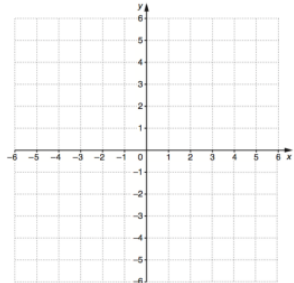


Inequalities on Graphs

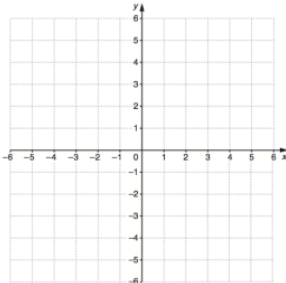
1. Label the correct region, R , for each inequality. Shade the unwanted parts

- a. $x > 2$ b. $y \leq 3$ c. $x \leq -1$
 d. $y > -3$ e. $1 < x < 4$ f. $-4 \leq y \leq 2$
 g. $x \leq -2$ and $y > 0$ h. $x > 3$ and $y < -3$
 i. $-3 \leq x < 2$ and $-5 \leq y \leq -2$

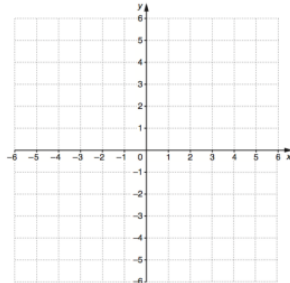
Question 1(a)



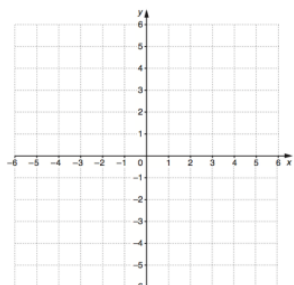
1(b)



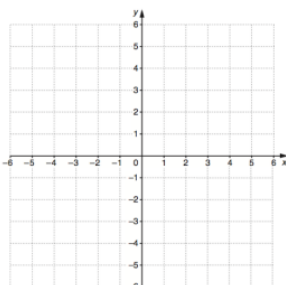
1(c)



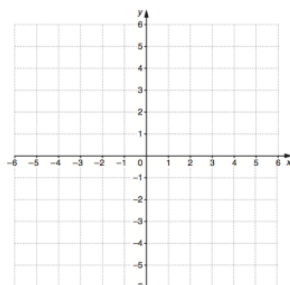
Question 1(d)



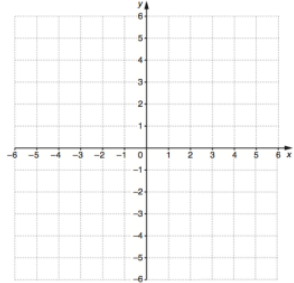
1(e)



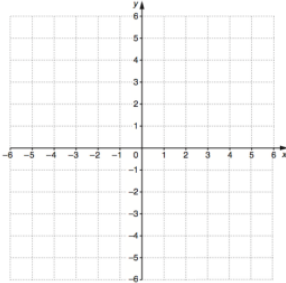
1(f)



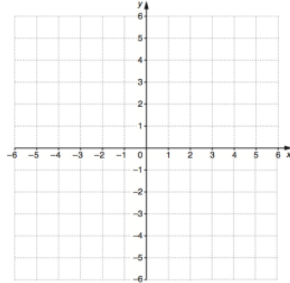
Question 1(g)



1(h)

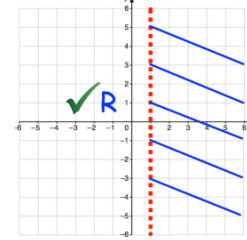


1(i)

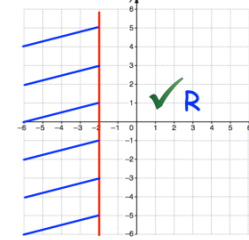


Question 2: Write down the inequality represented in each diagram below.

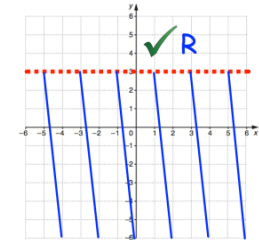
(a)



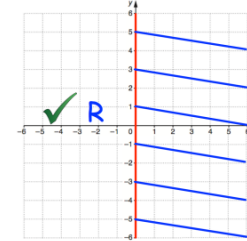
(b)



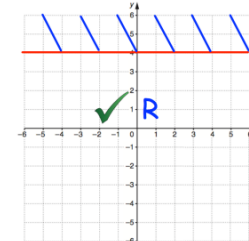
(c)



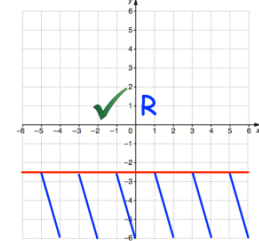
(d)



(e)

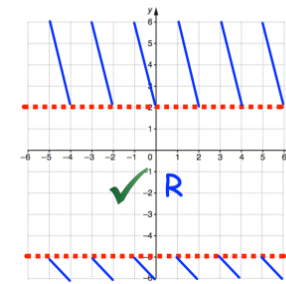


(f)

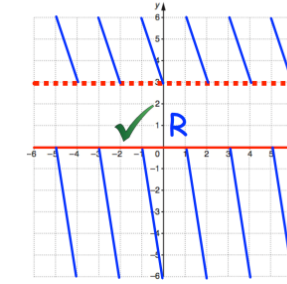


Question 4: Write down the inequality represented in each diagram below.

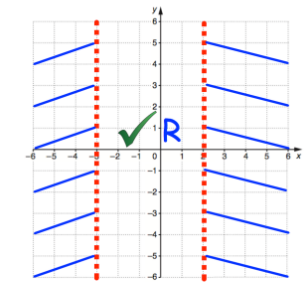
(a)



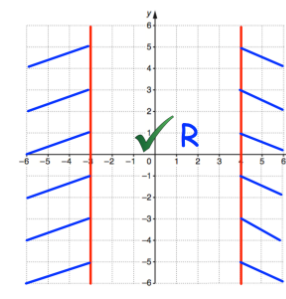
(b)



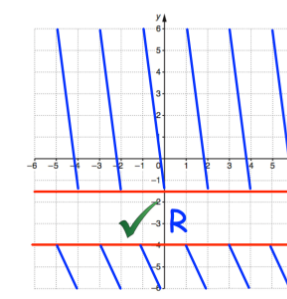
(c)



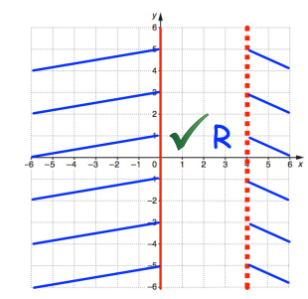
(d)



(e)



(f)



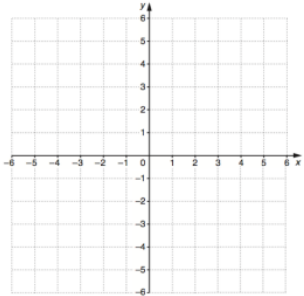
3. Label the correct region, R , for each inequality. Shade the unwanted parts

a. $y \leq x$ b. $y > -x$ c. $-x < y < x$

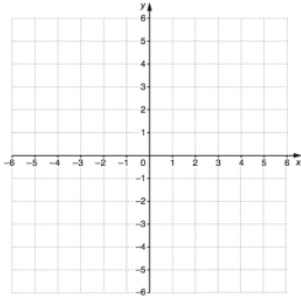
d. $x < 2$ and $y > x$ e. $y > -x$ and $y \leq -1$

f. $y > x, y > -x$ and $y \leq 4$

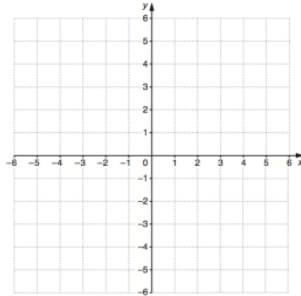
Question 3(a)



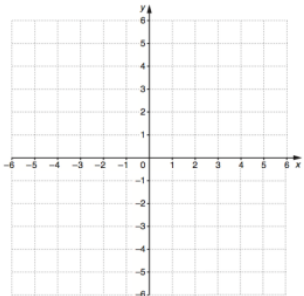
3(b)



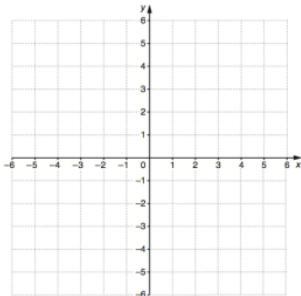
3(c)



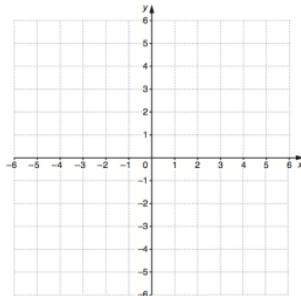
3(d)



3(e)



3(f)



5. A rectangle covers the area described by

$$1.5 < x < 2 \text{ and } -4.3 < y < -4$$

Using the digits 1 to 6 exactly once each, how many different coordinates can you find inside the rectangle, if they are written

a.

$$\left(\underline{\quad} . \underline{\quad} \underline{\quad} , - \underline{\quad} . \underline{\quad} \underline{\quad} \right)$$

b.

$$\left(\underline{\quad} \frac{\underline{\quad} \underline{\quad}}{\underline{\quad}}, - \frac{\underline{\quad} \underline{\quad}}{\underline{\quad}} \right)$$