

Mathematics

Inequalities and the Cartesian plane 2

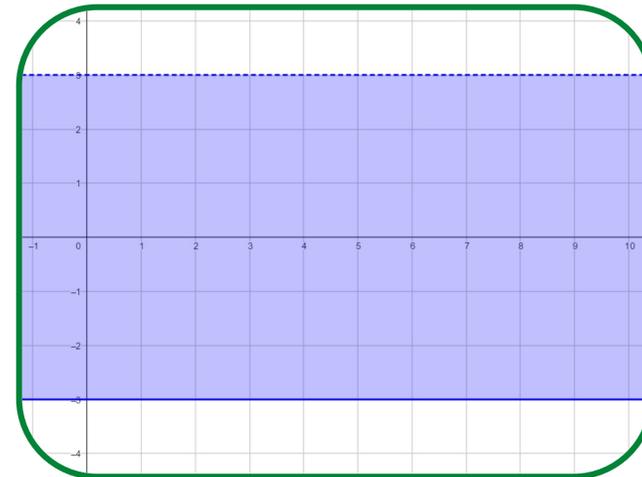
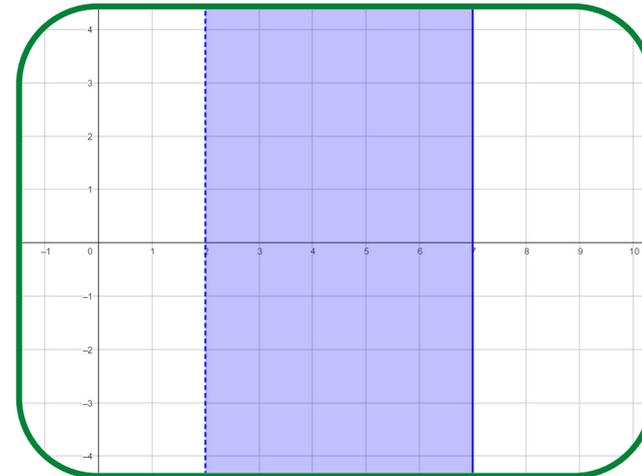
Downloadable Resource

Mr Maseko



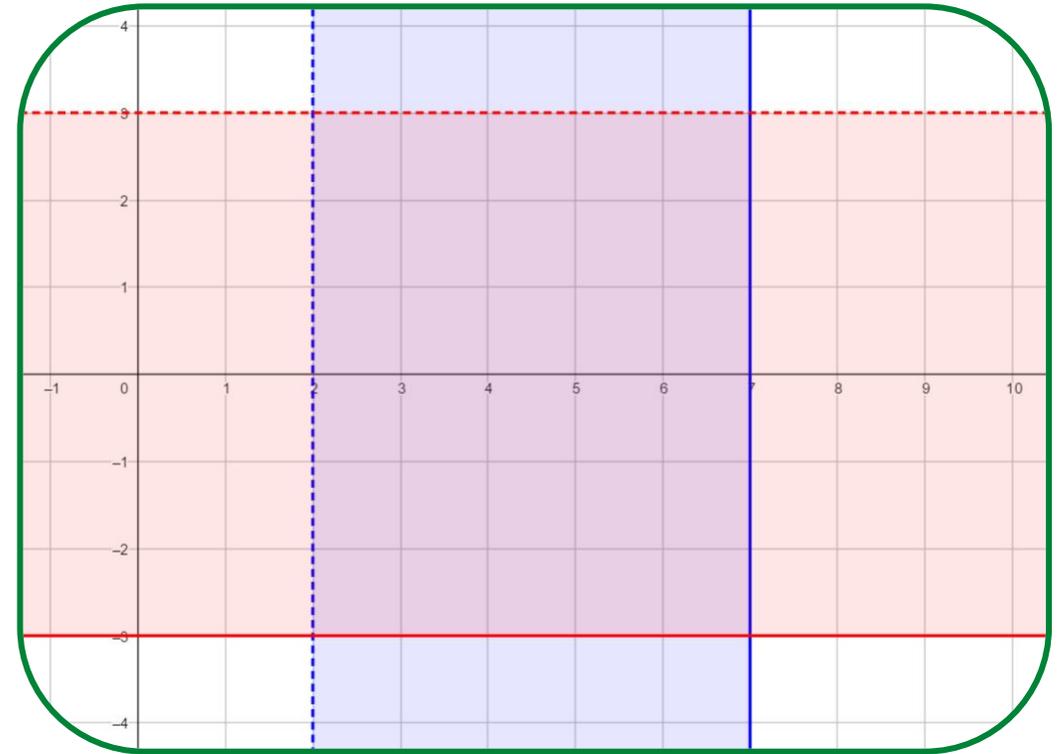
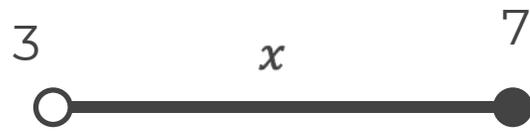
Try this

What's the same and what's different in these representations?



Connect

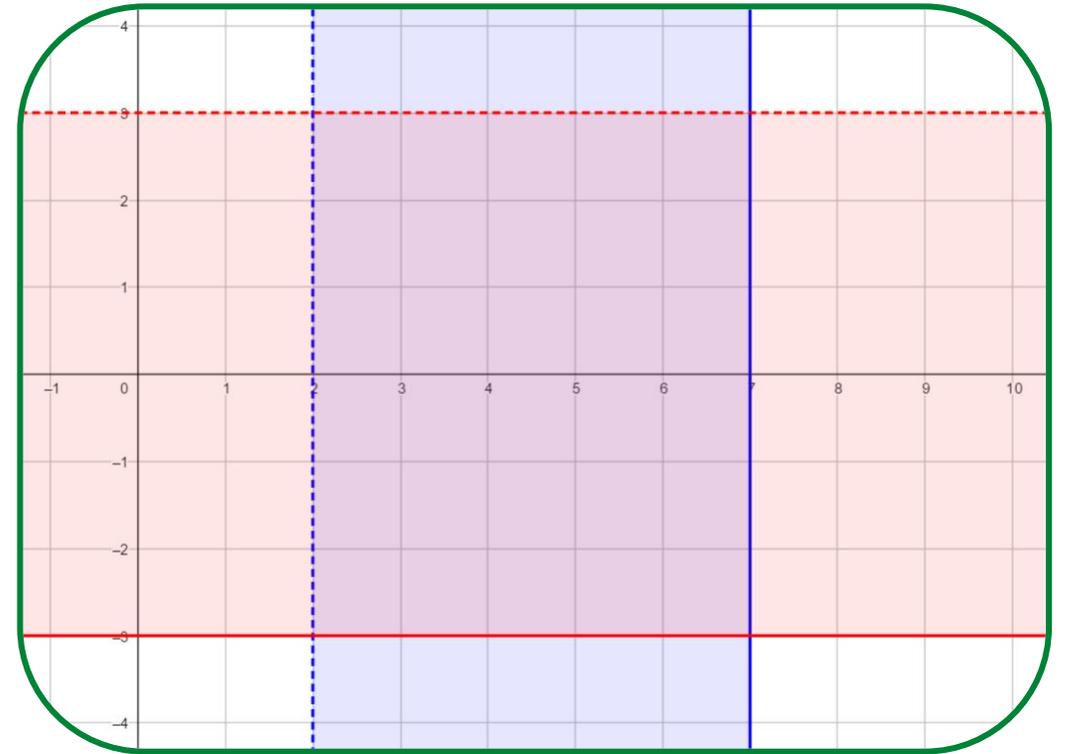
$$3 < x \leq 7$$



Connect

Write an inequality that describes the red section of the diagram

Show the inequality on a number line



Independent task

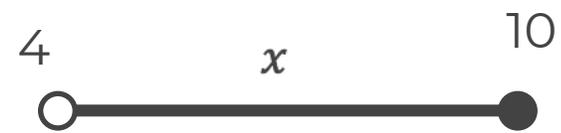
Show the following inequalities on a number line

a) $-2 < x \leq 5$

b) $1 \leq y \leq 3$

c) $5 < x \leq 8$

Write the inequalities these number lines represent



Explore

List all the coordinates (with integer x and y -ordinates) satisfy these inequalities:

$$-2 < x < 3$$

$$0 \leq y \leq 2$$

