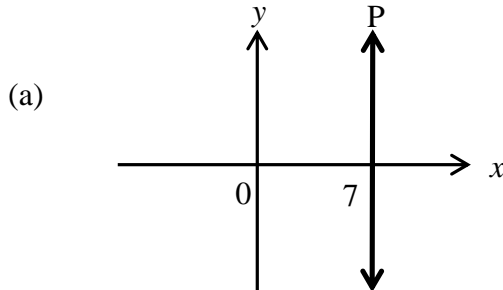# Year 9 Mathematics Worksheet 4
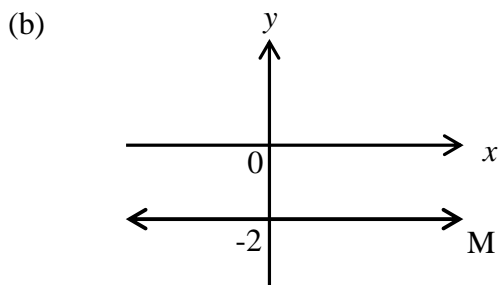
Write the answers in your Exercise Book.

Functions

1. Write the equations of the lines shown below.

    (a)

    (1 mark)

    (b)

    (1 mark)

2. Sketch the graphs of the following functions on Cartesian plane.

    (a) $\{(x, y): x \geq 1\}$ **(1 mark)**
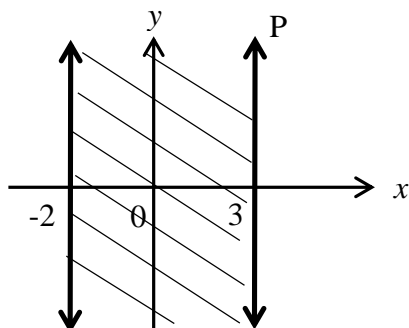
    (b) $\{(x, y): y < -2\}$ **(1 mark)**

    (c) $\{(x, y): -2 < x \leq 0\}$ **(1 mark)**

    (d) $\{(x, y): 1 \leq y \leq 5\}$ **(1 mark)**

3. For the graph shown below, write the inequality.

    (2 marks)