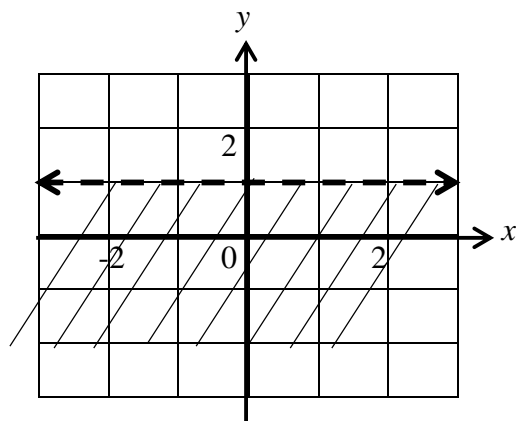


Year 9 Mathematics Worksheet 7

Write the answers in your Exercise Book.

Functions

1. A graph of an inequality is given below.



- (a) What is the equation of the dotted line? **(1 mark)**
- (b) Describe the shaded region by using set builder notation. **(2 marks)**
2. Sketch separate graphs to show the region described by the following sets.
- (a) $\{(x, y): x > 0\}$ **(2 marks)**
- (b) $\{(x, y): y < 3\}$ **(2 marks)**
- (c) $\{(x, y): -2 < x \leq 3\}$ **(2 marks)**
- (d) $\{(x, y): -3 \leq y < 1\}$ **(2 marks)**
3. Sketch the graph of the line parallel to the y-axis and passes through the point (1.5, 0). **(2 marks)**
4. Sketch the graph of the line parallel to the x-axis and passes through the point (0, -0.5). **(2 marks)**