



Year 10 Maths B Homework Sheet No.15

To be completed on loose-leaf paper.
Show FULL working out.



Aims:

- To provide ongoing revision of skills and concepts
- To develop procedural knowledge and fluency.

Need help? →

- 1 Complete the table of values for the rule
 $y = 2x - 5$ and use the range of x values given to plot the linear graph.

x	-2	-1	0	1	2	3	4
y							

- 2 Complete the table of values for the rule
 $y = -3x + 2$ and use the range of x values given to plot the linear graph.

x	-2	-1	0	1	2	3
y						

- 3 Sketch the graph of the following linear equations using the x - and y - intercept method.

a) $y = 3x + 2$

b) $y = -\frac{2}{3}x + 2$

c) $-5x + 6y = 15$

- 4 For $2(y - 6) = 5(x - 2)$ find:

- the gradient
- the y -intercept
- the x -intercept
- sketch the graph

- 5 Sketch the graphs of:

- $y = 5$
- $x = -5$

- 6 Determine the equation of the linear graphs when:

- x -intercept = -3 , y -intercept = -3
- y -intercept = 5 , x -intercept = -4

[Hint: You might need to sketch them first and determine the gradient.]

- 7 Determine the equation of the straight line with:

- gradient = -2 and y -intercept = -2
- gradient = 2 and x -intercept = 2

ANSWERS: You must show the mathematics used to get these answers. Simply writing the answer is not enough.
No answers given.