Functions and Graphs

- 1. Answer the whole of this question on a sheet of graph paper. A and B are two points of coordinates (3, 5) and (5, 3) respectively.
 - (a) On a graph paper, plot and label the points *A* and *B*. Draw a line joining *A* and *B*.
 - (b) Find the gradient of the line AB.
 - (c) Plot and label the points C(2, -1) and D(-3, 4).
 - (d) Join the points A, B, C and D and state the shape of the pattern obtained.
 - (e) On the same diagram, draw the line y = 1.
 - (f) Write down the coordinates of the point *E* where the lines BC and y = 1 intersect.

- 2. The gradient of a straight line graph is -3 and it passes through (2, -11).
 - (a) Draw and label this graph on a graph paper.
 - (b) Find the value of x when y = -2.



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1. (a) – (f)





