



Plot and read cubic graphs

Plot and read from reciprocal graphs

Recognise graph shapes

Identify and interpret roots

Intercept: where two lines cross. The y-intercept: where the line meets the y-axis

Parallel: two lines that never meet with the same gradient Co-ordinate: a set of values that show an exact position on a graph **Quadratic:** x^2 the highest exponent of the variable (usually x) is a square **Cubic:** x^3 the highest exponent of the variable is three Reciprocal: a pair of numbers that multiply together to give 1

and intercepts of quadratics



Year 11 - Graphs...

450

400

350 300

250

200

150

100

50

0

the lines on the graph

to show your working.

10 20 30 40 50 60 70 80 90 100



2)

UK pounds

the line2) From the line, read horizontally until you get to the axis showing lira

Change 600 Turkish lira to pounds

As this value is not shown by the graph, we have to use a value that is to help.

 Start at 200 on the vertical axes and go across horizontally until you reach the line. From the line, read vertically until you get to the axes.





Speed-time graph

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Here is a speed time graph showing the speed a motorbike is travelling at as time goes on.

A- the motorbike is **accelerating** quite hard

B - the bike is still accelerating, but less hard

C – The bike is now travelling at a **constant speed** of 75km/hr

D – The bike is **slowing down** at a constant rate









Step 4: Instead of y= write $f^{-1}(x) =$