K Education Centre

GCSE Maths - Higher

Quadratic Graphs

Assignment Questions

Quadratic Graphs

Q1 : Solve simultaneous equations $y = x^2 + 2x + 3$ and $y = x - 1$ graphically. $(-5 \leq x \leq 5)$

Q2: Draw the graph of $y = x^2 - 8x - 10$

Use this graph to solve the equation $x^2 - 8x - 10 = 5$

Q3: Use the graphical method to find the solutions of

$$x^2 + y^2 = 4$$

And $y = x + 1$

Q4 : Solve these pairs of equations algebraically.

$$x^2 + y^2 = 9$$

$$y = x + 3$$

Q5 : Given that $x^2 + y^2 = 185$ and that $y = 6x - 37$. Show that

$$x^2 - 12x + 32 = 0$$