

Objective: To solve quadratic equations graphically



Met

Partially
Met

Not Met

Work on the
following sections:

Section 1

Section 2

Extension

Section 1

Complete the table of values then plot the values on graph paper:

| x | -2 | -1 | 0 | 1 | 2 |
|----------------|----|----|---|---|---|
| x^2 | | | | | |
| $2x$ | | | | | |
| $y = x^2 + 2x$ | | | | | |

Use your graph to solve $x^2 + 2x = 1.5$

Section 2

Complete the table of values then plot the values on graph paper:

| x | -2 | -1 | 0 | 1 | 2 |
|--------------------|----|----|---|---|---|
| x^2 | | | | | |
| $-3x$ | | | | | |
| $y = x^2 - 3x + 1$ | | | | | |

Use your graph to solve $x^2 - 3x + 1 = 1.5$

Extension

Explain how you can use your table of values to check if you have correctly calculated the coordinates of the graph.