

Maths HL9 Extended – Drawing and sketching quadratics

- Construct a TOV for $y = 6 + 3x - x^2$ of x from -2 to 5 and use the values to plot the graph
 - On the same set of axis draw the graph $y = \frac{1}{2}x - 1$
 - Use your graph to solve $6 + 3x - x^2 = \frac{1}{2}x - 1$
- Sketch the following graphs
 - State the equation of the line of symmetry
 - $x^2 - 3x - 10$
 - $-2x^2 + 3x + 8$
 - $(x - 2)^2 + 5$
 - $x^2 - 4x - 7$

- State the equation for each graph

