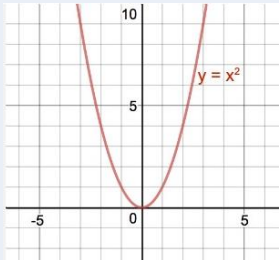
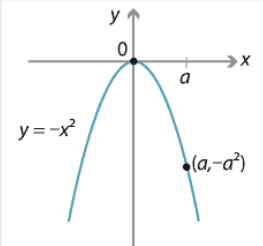
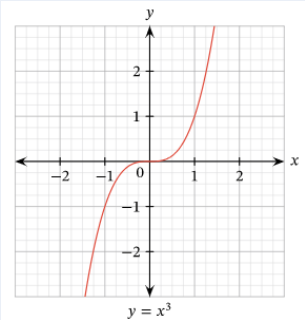
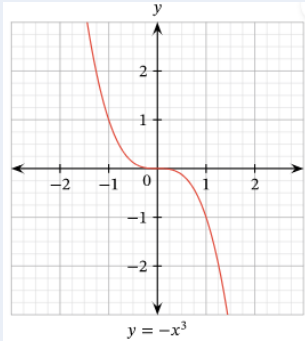
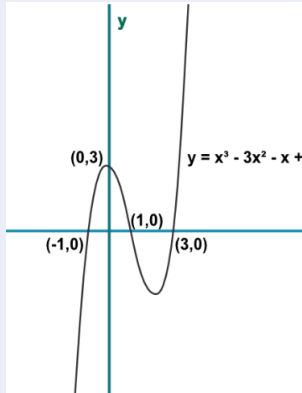


Non-linear Graphs – quadratic and cubic

Keywords:	Quadratic / Parabola / Substitute / Cubic / Root / Solution				
Definition / Description:	Quadratic expression contains terms up to and including x^2	A Parabola is a curved graph formed from a quadratic equation. A parabola has a line of symmetry	Cubic expression contains terms up to and including x^3	Substitute: Exchange or replace variables with amounts	Roots or solutions: of graphs are the values of x-coordinates of the points where the graph crosses the x-axis
Knowledge points:	Plotting graphs: <ol style="list-style-type: none"> 1. Complete a table of values for a graph, substituting different values of x to find the y coordinate 2. Join the points with a smooth line to create a curve 3. Label the graph 				
Knowledge point examples:	Positive Quadratic in the form $y = x^2$ 	Negative quadratic in the form $y = -x^2$ 	Positive cubic graph $y = x^3$ 	Negative cubic graph $y = -x^3$ 	Complex cubic graph 
Linked Knowledge Maps	Linear Graphs Non-linear graphs – reciprocal, exponential and circle Solving Quadratic equations				