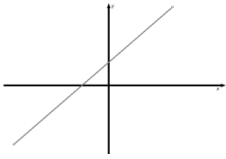


GRAPHS

BASIC CURVES AND EQUATIONS

STRAIGHT LINE

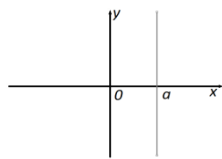


$$y = mx + b$$

$$ax + by + c = 0$$

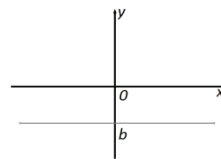
$$y - y_1 = m(x - x_1)$$

VERTICAL LINE



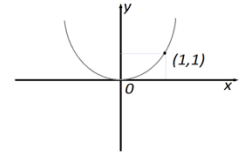
$$x = a$$

HORIZONTAL LINE



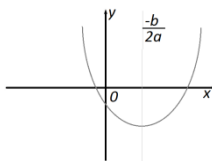
$$y = b$$

PARABOLA



$$y = x^2$$

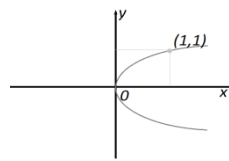
PARABOLA



$$y = ax^2 + bx + c$$

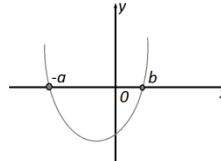
Axis of symmetry at : $x = -\frac{b}{2a}$

PARABOLA



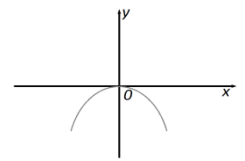
$$y^2 = x$$

PARABOLA



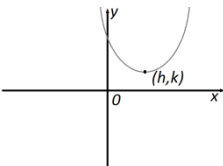
$$y = (x + a)(x - b)$$

PARABOLA



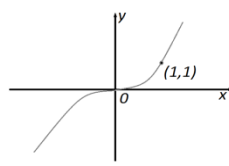
$$y = -x^2$$

PARABOLA



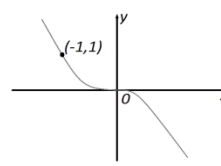
$$y = a(x - h)^2 + k$$

CUBIC



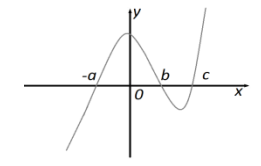
$$y = x^3$$

CUBIC



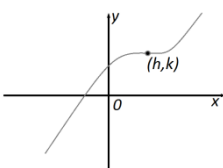
$$y = -x^3$$

CUBIC



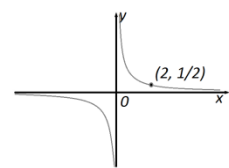
$$y = (x + a)(x - b)(x - c)$$

CUBIC



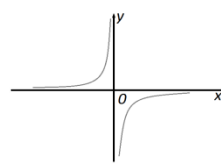
$$y = a(x - h)^3 + k$$

HYPERBOLA



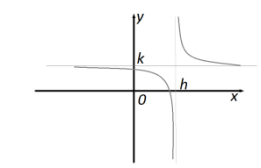
$$y = \frac{1}{x}, xy = 1$$

HYPERBOLA



$$y = -\frac{a}{x}, xy = -a$$

HYPERBOLA



$$y = \frac{a}{x - h} + k$$

MATHS REFERENCE SHEET COLLECTION

A reference sheet for the
hawkermaths.com
senior maths program

Mathematical Applications
Mathematical Methods
Specialist Mathematics

