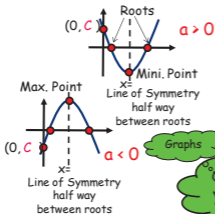


Credit

# Functions & Quadratics

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Graphs

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

Factorisation

$$ax^2 + bx + c = 0$$

SAC  
e.g.  $(x+1)(x-2) = 0$

Roots  
 $x = -1$  and  $x = 2$

Roots  
 $x = -1.2$  and  $x = 0.7$

$$f(x) = x^2 + 4x + 3$$
$$f(-2) = (-2)^2 + 4(-2) + 3$$
$$= -1$$

Evaluating

Decimal  
places

Cannot Factorise

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$