

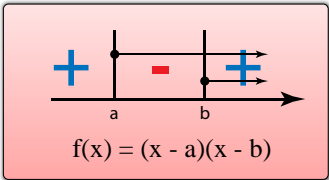
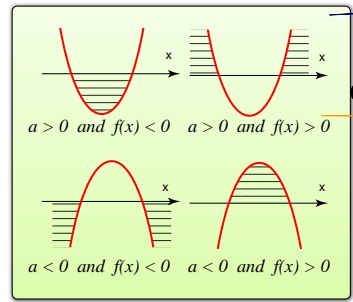
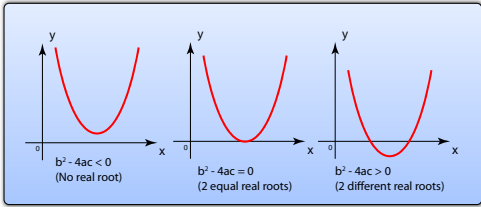
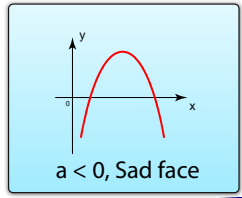
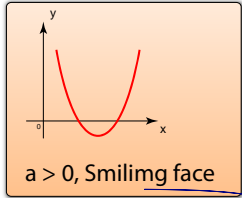
$$f(x) = a(x + p)^2 + q$$

- (i) the value of x , $x = -p$
- (ii) min./max. value = q
- (iii) min./max. point = $(-p, q)$
- (iv) equation of axis of symmetry, $x = -p$

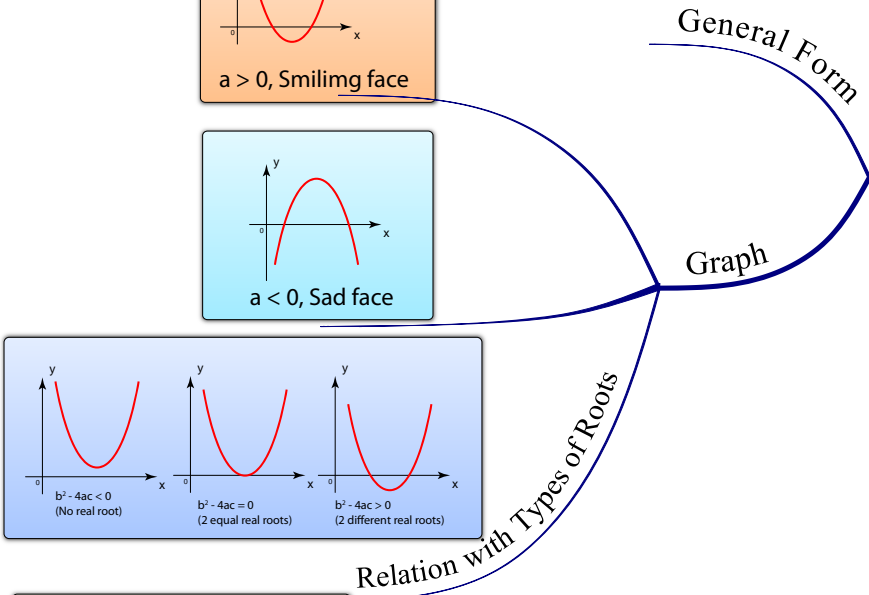
$$f(x) = ax^2 + bx + c$$

where a , b , and c are constants and $a \neq 0$.

Note that the highest power of an unknown of a quadratic equation is 2.



Quadratic Functions

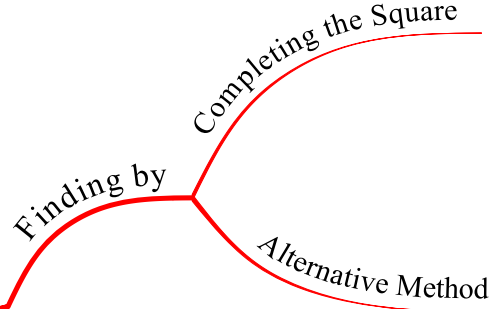


Quadratic Function

Quadratic Inequalities

Maximum and Minimum Values

Sketching Graphs



$$f(x) = ax^2 + bx + c$$

- (i) the value of x , $x = -\frac{b}{2a}$
- (ii) min./max. value = $f(-\frac{b}{2a})$
- (iii) equation of axis of symmetry, $x = -\frac{b}{2a}$

