Case 1: a =0 then this is not a quadratic equation

Case 2: b^2 – 4ac >0 Then equation have two different solutions those are

Root1: ( -b + squareroot(b^2 – 4ac) ) / 2a

Root2: ( -b - squareroot(b^2 – 4ac) ) / 2a

Case 3: b^2 - 4ac = 0 Then roots are same that is

Root: -b/2a

Case 4: b^2 - 4ac<0 Then roots are different and imaginry those are

Root1: ( -b + i squareroot(absoluteValue(b^2 – 4ac)) ) / 2a

Root2: ( -b - i squareroot(absoluteValue(b^2 – 4ac)) ) / 2a