

Quadratic Equation

Graph of quadratic function

1. $f(x) = ax^2 + bx + c \quad (a, b, c \in \mathbb{R} \text{ \& } a \neq 0)$

(a) Step-I

- Case-I, $a > 0$

- Case-II, $a < 0$

(b) Step-II

- $D > 0$

- $D < 0$

- $D = 0$

2. Vertex of quadratic function



