

## Quadratic Equation

Write True or False in the boxes.

- 1) All quadratic equations can have at most two roots.
- 2) The standard form of a quadratic equation is  $ax^2 + bx + c = 0$ ,  $a \neq 0$ .
- 3) In the quadratic formula, discriminant is the root of the equation.
- 4) If the quadratic equation  $x^2 + 6x + 9 = 0$  has -3 as one of the roots, the other roots will be -3.
- 5) The equation  $x^2 + 11x + 18 = 0$  has two distinct and real roots.
- 6) The degree of quadratic equation must be equal to 2.
- 7) The factors of quadratic equation  $x^2 + 12x + 120 = 0$  are  $(x - 10)(x + 2)$
- 8) In quadratic equation  $ax^2 + bx + c = 0$ , then a must be equal to zero.
- 9) The discriminant of equation  $x^2 + 15x + 26 = 0$  is -11.
- 10) The root of a quadratic equation must satisfy the quadratic equation itself.