Maths (New Book) - 10th Class Mathematics English Medium Chapter 2 Preparation

Q1. If $b^2-4ac > 0$ and is a perfect square then what must be the nature of the roots ?

Ans 1: If $b^2-4ac > 0$ and is a perfect square then, the roots are rational and unequal.

Q2. Solve the equation $7x^2 + 8x +1 = 0$ by factorization ?

Ans 1:

Q3. Prove that each complex cube root of unity is reciprocal of the other.

Ans 1:

Q4. If the discriminant of the equation is zero, what is the nature of roots of equation ?

Ans 1: If the discriminant of the equation is zero then the roots are rational (real) and equal.

Q5. What is the product of three cube rotos of unity ?

Ans 1: The product of three cube roots of unity is 1.

Q6. Solve the equation $2x^2- x + 1 = 0$ by using quadratic formula.

Ans 1:

Q7. What is the discriminant of $2x^2- x + 1 = 0$?

Ans 1:

Q8. What is the discriminant of $2x^2 - x + 1 = 0$?

Ans 1:

Q9. Find the discriminant of $x^2- 3x + 3 = 0$.

Ans 1:

Q10. Find the sum of the roots and product of the roots of the equation $x^2 + 4x - 9 = 0$

Ans 1:
