#### **Question:**

Solve:  $2x^2 - 5x + 3 = 0$ 

#### Solution:

# Step1:

Compare with 
$$ax^2 + bx + c = 0$$
  
  $a = 2, b = -5, c = 3$ 

## Step 2:

Discriminant:

$$D = b^2 - 4ac$$

$$D = (-5)^2 - 4(2)(3)$$

$$D = 25 - 24 = 1$$

## Step 3:

Roots formula:

$$x = (-b \pm \sqrt{D})/2a$$

# Step 4:

Substituting:

$$x = (5 \pm 1) / 4$$

# Step 5:

Roots:

$$x = 6/4 = 3/2$$

$$x = 4/4 = 1$$

Final Answer: x = 3/2 and

$$x = 1$$