

സംഖ്യാ രീതിയിൽ

$$\frac{a}{6} - \frac{b}{5} = -2 \quad \dots \dots \dots \textcircled{1}$$

$$\frac{a}{3} + \frac{b}{4} = 9 \quad \dots \dots \dots \textcircled{2}$$

$$\frac{a}{6} - \frac{b}{5} = -2$$

6 സഹ 5 , കു.പൊ.ഗു. 30 വേ

$$30 \times \frac{a}{6} - 30 \times \frac{b}{5} = 30 \times -2$$

$$5a - 6b = -60 \quad \dots \dots \dots \textcircled{3}$$

$$\frac{a}{3} + \frac{b}{4} = 9 \quad \dots \dots \dots \textcircled{2}$$

3 സഹ 4 , കു.പൊ.ഗു. 12 വേ

$$12 \times \frac{a}{3} + 12 \times \frac{b}{4} = 9 \times 12$$

$$4a + 3b = 108 \quad \dots \dots \dots \textcircled{4}$$

$$5a - 6b = -60 \quad \dots \dots \dots \textcircled{3}$$

$$4a + 3b = 108 \quad \dots \dots \dots \textcircled{4}$$

$$\textcircled{4} \times 2 \quad 8a + 6b = 216 \quad \dots \dots \dots \textcircled{5}$$

$$\textcircled{5} + \textcircled{3} \text{കു} \quad 13a = 156$$

$$\underline{13a} = \underline{156}$$

$$13 \quad 13$$

$$\underline{\underline{a}} = \underline{\underline{12}}$$

$$\textcircled{3} \text{കു} \quad 6b = 5a + 60$$

$$6b = 5 \times 12 + 60$$

$$6b = 120$$

$$\underline{6b} = \underline{120}$$

$$6 \quad 6$$

$$\underline{\underline{b}} = \underline{\underline{20}}$$

- 13.1 അംഗങ്ങൾ നിമി കരണ്ട്.

සාධක භාවිතයෙන් වර්ගජ සමීකරණ විසඳීම
 $ax^2 + bx + c = 0$ ආකාරයේ වර්ගජ සමීකරණයක විසඳුම් සොයන ආකරය මිට පෙර ඔබ
 උගෙන ඇත.

චූහරණ: -

$$\begin{aligned} \text{i. } x^2 + 7x + 12 &= 0 \\ x^2 + 3x + 4x + 12 &= 0 \\ x(x+3) + 4(x+3) &= 0 \\ (x+3)(x+4) &= 0 \\ x+3=0 \quad \text{නො} \quad x+4=0 & \\ x=-3 \quad \text{නො} \quad x=-4 & \end{aligned}$$

$$\begin{aligned} \text{ii. } x^2 + 5x + 6 &= 0 \\ x^2 + 2x + 3x + 6 &= 0 \\ x(x+2) + 3(x+2) &= 0 \\ (x+2)(x+3) &= 0 \\ x+2=0 \quad \text{නො} \quad x+3=0 & \\ x=-2 \quad \text{නො} \quad x=-3 & \end{aligned}$$

විසදන්න.

- I. $x(x+1) = 0$
- II. $x^2 + 2x = 0$
- III. $(x+2)(x-1) = 0$
- IV. $x^2 - 7x + 12 = 0$
- V. $x^2 - x - 30 = 0$
- VI. $y^2 + 5y - 36 = 0$
- VII. $m^2 - 2m - 15 = 0$