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$$i) x^2 + 10x + 21 = 0$$

$$(x+7)(x+3) = 0$$

$$x^2 + \frac{3x+7x}{10x} + 21 = 0$$

$$x+7=0$$

$$x+3=0$$

$$(x=-7)$$

$$(x=-3)$$

$$ii) x^2 - 3x + 2 = 0$$

$$(x-2)(x-1) = 0$$

$$x^2 - \frac{x-2x}{-3x} + 2 = 0$$

$$x-2=0$$

$$x-1=0$$

$$(x=2)$$

$$(x=1)$$

$$iii) x^2 + 12x + 20 = 0$$

$$15x = 21$$

$$x = \frac{21}{15} = \frac{7}{5}$$

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ii)

$$\frac{5x+3}{4} = \frac{2x-1}{9}$$

$$4 \times 9 = 36$$

$$\frac{36(5x+3)}{4} = \frac{36(2x-1)}{9}$$

$$9(5x+3) = 4(2x-1)$$

$$45x + 27 = 8x - 4$$

$$37x = -31$$

$$x = \frac{-31}{37}$$

4.

$$14x^2 + 3x = 11$$

2.d.p

$$\begin{matrix} a & b & c \\ 14x^2 + 3x - 11 = 0 \end{matrix}$$