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Shore

$$ii) \frac{(4x-1)}{3} - \frac{x}{4} = \left(\frac{4x+3}{2}\right)$$

$$3 \times 4 \times 2 = 24$$

$$\frac{24(4x-1)}{3} - \frac{24(x)}{4} = \frac{24(4x+3)}{2}$$

$$8(4x-1) - 6(x) = 12(4x+3)$$

$$32x - 8 - 6x = 48x + 36$$

$$32x - 6x - 48x = 36 + 8$$

$$-22x = 44$$

$$x = \frac{44}{22}$$

$$x = 2$$

iii) ~~Flag~~ $2\log(5x+3) = \log(x+1) + \log(x+2)$

$$\log(5x+3)^2 = \log(x+1)(x+2)$$

$$25x^2 + 9 = (x+2)(x+1)$$

$$= x^2 + 2x + 2x + 2$$

$$25x^2 + 9 = x^2 + x + 2x + 2$$