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time 15:00

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Page 2/6

ACHA 3000

$$(i) 15x - 2 = 12x + 9$$

$$15x - 2 = 12x + 9$$

$$15x - 12x - 2 = 9$$

$$3x(-2) = 9$$

$$3x = 9 + 2$$

$$3x = 11$$

$$x = \frac{11}{3}$$

$$x = 3.667$$

$$(ii) 3(7x - 1) = 6(x + 3)$$

$$3 \times 7x = 21x, \quad 3x - 1 = -3$$

$$6 \times x = 6x, \quad 6 \times 3 = 18$$

$$21x - 3 = 6x + 18$$

$$21x - 6x - 3 = 18$$

$$15x(-3) = 18$$

$$15x = 18 + 3$$

$$15x = 21$$

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

$$x = 1.4$$

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

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

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

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

$$37x + 27 = -4$$

$$37x = -4 - 27$$

$$37x = -31$$

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

$$x = -0.8378$$