

Ruben

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Maths Exam - ACHA3000

2. ii) ~~10x~~

$$10(3x+2) = -2x-1$$

$$\begin{array}{r} 30x+20 = -2x-1 \\ +14x \quad +14x \end{array}$$

$$\begin{array}{r} 44x+20 = -1 \\ +7 \quad +7 \end{array}$$

$$\begin{array}{r} 44x+27 = 0 \\ -27 \quad -27 \end{array}$$

$$\begin{array}{r} 44x = -27 \\ x = \frac{-27}{44} \end{array}$$

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

$$\text{iv) } \frac{(x+2)^2}{(x+2)(x+2)} = \frac{(x+3)(x+5)}{(x+3)(x+5)}$$

$$x^2 + 2x + 2x + 4$$

$$x^2 + 4x + 4$$

$$x^2 + 5x + 3x + 15$$

$$x^2 + 8x + 15$$

$$4x + 4 = 8x + 15$$

$$-4x$$

$$-4x$$