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1. (iv) $2\sqrt{x} \times 3\sqrt{x}$

$$2x(3) = 6x$$

$$= x^6$$

1. (v) x^1

2. (i) $7x - 1 = 5x + 4$

$$7x - 5x = 4 - 1$$

$$7x - 5x = 2x$$

$$4 - 1 = 3 \quad \frac{2x}{3}$$

2. (ii) $10(3x + 2) = 7(-2x - 1)$

$$10(3) = 30 \quad 10(2) = 20$$

$$20 + 30x = 14x - 7$$

$$7(-2) = -14x \quad 7(-1) = -7$$

$$30x - 14x = 20 - 7$$

$$x = \frac{16}{13}$$

2. (iv) $(x + 2)^2 = (x + 3)(x + 5)$

$$3x^2 = 10$$

$$3 + 3 = 6x \quad x = \frac{6x}{10}$$

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1. (i) $x^6 x x^8 x x^2 x x = x^{17}$
 $6+8+2+1=17$

1. (ii) $(2x^2)^4 x 3x^3$

$2(4) = 8 \quad 2+4=6$

$= 8x^6$

$3 \times 3 \times 3 = 27$

$= 8x^6 \times 27x$

2. (ii) $\frac{3}{(2x+1)} - \frac{4}{(x-1)}$

↑
got
mixed
up

$4(2x) = 8x \quad 4(1) = 4$

$3(2) = 3x \quad 3(-1) = -3$

$8x+4 = 3x-3$

$8x-3x = 4+3$

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

1. (iii) $\frac{x^2 x x^{10} x x}{x^8}$

$2+10+1=13 \quad \frac{x^{13}}{x^8}$