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Q1

i) $x^6 \times x^8 \times x^2 \times x = x^{17}$

ii) $(2x^2)^4 \times 3x^3 =$

A

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2) i) $7x$

$7x$

ii) 10

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$x = 17$

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2)

$$i) 7x - 1 = 5x + 4$$

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

$$2x = -5$$

$$x = \frac{-5}{2}$$

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

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4)

$$17x^2 = -5x + 14$$

$$17x^2 - 5x + 14 = 0$$

A B C

$$x = \frac{-5 \pm \sqrt{(5)^2 - 4(17)(+14)}}{2(17)}$$

$$x = \frac{-5 \pm \sqrt{25 - 952}}{34}$$

$$x = \frac{-5 \pm \sqrt{927}}{34}$$

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5)

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5)

$$\begin{array}{l} 6x + 5y = 35 \quad (1) \times 4 \\ 7x + 4y = 31 \quad (2) \times 5 \end{array}$$

$$\begin{array}{r} 24x + 20y = 140 \\ 28x + 20y = 124 \\ \hline \end{array}$$

$$52x = 264$$

$$x = \frac{264}{52}$$

$$x = 5.07 \text{ sus in 2}$$

$$7(5.07) - 4y = 31$$

$$35 - 4y = 31$$

$$4y = \cancel{35} - 35$$

$$35 - 31$$

$$4y = 4$$

$$y = \frac{4}{4}$$

$$y = 1$$

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6)

$$i) 10p^3q^2 - 5p^2q + 15p^4q$$

7) z

