

Ruben

Bhahia

(2104693)

1 of 5

11/11/2021

Marks Exam - ACHA3000

$$1. i) x^6 \times x^3 \times x^2 \times x = x^{17}$$

$$\begin{aligned} \text{ii.) } & \cancel{(2x^2)}^4 \cdot (2x^2)^4 \cdot 3x^3 \\ & 16x^8 \cdot 3x^3 \\ & = 48x^{11} \end{aligned}$$

$$\begin{array}{r} x^2 \cdot x \cdot x^{10} \cdot x \cdot x \\ \hline x^3 \\ \hline x^{13} \\ \hline x^3 \\ \hline = 10 x^{10} \end{array}$$

$$\begin{aligned} \text{iv)} \quad & 2\sqrt{x} \times 3\sqrt{x} \\ & x^{\frac{1}{2}} \times x^{\frac{1}{2}} \\ & = x^{\frac{1}{2} + \frac{1}{2}} \\ & = x^1 \\ & = x \end{aligned}$$

$$v) 1 = x^0$$

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

$$\begin{array}{r} 7x - 5x + 5 \\ -5x - 5x \end{array}$$

$$2x = 5$$