

Introduction to Mathematics and Science (Test 1)

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i) $x^4 \times x \times x^6 \times x$
 $4x + 6x = 10x$
 $- 4x - 6x = -10x$
 $\therefore x^4 \times x^6 \times x = \frac{10}{2}$
 $x = \frac{10}{2}$

ii) $2x^2 \times 3x^3 \times 2x$
 ~~$6x \times 5x \times 4x$~~
 $6x = x^5 = 4x$
 $6x + 4x = 10x$
 $10x^5$

iii) $x^4 \times x^3 \times x^2 = x^9 \leftarrow x^9$
 $x^7 \times x^2 = x^9$
 x^9 $- 4x - 3x - 2x = 9x$

iv) $(3x^2)^3$ $3 \div 2 = 6 + 3$ ~~$3 \div 2$~~

v) $\sqrt{x} \times \sqrt{x} = \sqrt{2} \times \sqrt{1} = \sqrt{1}$