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Introduction to Mathematics and Science

(1) Express the following as x to a power.

(i) $x^6 \, x^8 \times x^2 \times x$

$6+8+2+1=17$

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

$16x^8 \times 3x^3 = 48x^{11}$

(iii) $\dfrac{x^2 \times x^{10} \times x}{x^3}$

$\dfrac{x^{13}}{x \times x \times x}$ $\quad x = 10$

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

$2 \times 3 = 6 \quad x \times x$

$= 6x^1$

(v) $\dfrac{1}{x}$

$= x$