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e4 Mathematics for Physical Chemistry thesineandcosinetotheappropriatenumberofdigits. $(31) 2 \quad \text{rad } 360 = 0.54 \text{ rad}$ $\sin(30.5) = 0.5075$ $\sin(31.5) = 0.5225$ $\sin(31) = 0.51$ $\cos(30.5) = 0.86163$ $\cos(31.5) = 0.85264$ $\cos(31) = 0.86$ 15. Some elementary chemistry textbooks give the value of R, the ideal gas constant, as 0.0821 l atm K⁻¹ mol⁻¹.

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Write this function in terms of Cartesian coordinates. $\cos(\theta) = z / \sqrt{x^2 + y^2 + z^2}$
a. The function is given by $z = \sqrt{x^2 + y^2 + z^2} \cos(\theta)$
b. The function is given by $z = \sqrt{x^2 + y^2 + z^2} \cos(\theta)$

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Mathematics for Physical Chemistry where M is the molar mass and N_A is Avogadro's constant: $v_p = \sqrt{2mk_B T} = \sqrt{2(1.3806568 \times 10^{-23} \text{ J K}^{-1})(298.15 \text{ K})(4.652 \times 10^{-26} \text{ kg})} = 420.7 \text{ m s}^{-1}$
For a rough graph, we omit a constant factor and plot the function $g = u^2 e^{-u^2}$ where $u = v/v_p$. 31.

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Example: For example suppose we have $x = 3$, $y = 5$ and $a = 6$ then: $1. a(x + y) = 6(3 + 5) = 6 \cdot 8 = 48$
 $2. (a x) + (a y) = (6 \cdot 3) + (6 \cdot 5) = 18 + 30 = 48$

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So $a(x + y) = (a x) + (a y)$ and the distributive rule holds. Factorisation. Factorisation is used to tidy up equations in order to make them easier to read and understand.

Maths for Chemists

Solutions to exercises 1B.1(b) The mean speed is $\sqrt{8RT}$ v_{mean} M The mean translational kinetic energy is $\frac{3}{2}RT$ $\frac{3}{2}kT$ $\frac{1}{2}M v_{\text{mean}}^2$ The ratios of species 1 to species 2 at the same temperature are $\frac{v_{\text{mean},1}}{v_{\text{mean},2}}$ (i) $\sqrt{\frac{M_2}{M_1}}$ $\frac{v_{\text{mean},H}}{v_{\text{mean},Hg}}$ $\sqrt{\frac{200.6}{4.003}}$ $\frac{1}{2}M v_{\text{rms}}^2$ $\frac{E_k}{E_k}$ $\frac{1}{2}M v_{\text{rms}}^2$ 7.079 (ii) The mean translation kinetic energy is independent of molecular mass and depends upon temperature alone!

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