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Solutions

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

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Write this function in terms of Cartesian coordinates.
 $\cos(\theta) = \frac{z}{\sqrt{x^2 + y^2 + z^2}}$ $\frac{1}{2} \times \exp - a_0 \frac{2a_0}{r}$
Mathematics for Physical Chemistry b. The ψ_{211} function is given by $\psi_{211} = \sqrt{\frac{8}{\pi}} \frac{a_0^{-3/2}}{12}$.

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the molar mass and N_A is Avogadro's constant: $v_p = \sqrt{2mk_B T} = \sqrt{2(1.3806568 \times 10^{-23} \text{ J K}^{-1})(298.15 \text{ K})}$
 $(4.652 \times 10^{-26} \text{ kg})^{1/2} = 420.7 \text{ m s}^{-1}$ 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. $(ax) + (ay) = (6 \cdot 3) + (6 \cdot 5) = 18 + 30 = 48$ So $a(x + y) = (ax) + (ay)$ 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 $8RT$
 $v_{\text{mean}} = \sqrt{\frac{3RT}{M}}$ 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 $\frac{v_{\text{mean},1}}{v_{\text{mean},2}} = \sqrt{\frac{M_2}{M_1}}$ (i) $\frac{1}{2}M_1 v_{\text{mean},1}^2 = \frac{1}{2}M_2 v_{\text{mean},2}^2$ and $\frac{v_{\text{mean},1}}{v_{\text{mean},2}} = \sqrt{\frac{M_2}{M_1}}$ 200.6
4.003 (ii) The mean translation kinetic energy is independent of molecular mass and depends upon temperature alone!

Atkins' Physical Chemistry Instructors Solutions Manual ...

Merely said, the mathematics for physical chemistry

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Mathematics for Physical Chemistry: Opening Doors - Donald ...

Abstract. The objectives of Physical Chemistry: Concepts and Theory are presented. The book is

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organized in accordance with the mathematics used: continuum for thermodynamics; discrete for quantum theory; statistics and probabilities for statistical mechanics; and the mathematics for potential-driven changes at short and long times for kinetics.

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