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Chemistry the sine and cosine to the app

ropriate number of digits. $(31)^\circ = 2 \text{ rad}$

$360 = 0.54 \text{ rad}$ $\sin(30.5) = 0.5075$

$\sin(31.5) = 0.5225$ $\sin(31) = 0.51$

$\cos(30.5) = 0.86163$ $\cos(31.5) =$

0.85264 $\cos(31) = 0.86$

15. Some elementary chemistry textbooks give

the value of R, the ideal gas constant,

as $0.0821 \text{ l atm K}^{-1} \text{ mol}^{-1}$.

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Write this function in terms of

Cartesian coordinates. $\cos(\theta) = z/r$

$$r = \sqrt{x^2 + y^2 + z^2}$$

$\exp(-\alpha r) = \exp(-\alpha \sqrt{x^2 + y^2 + z^2})$

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function is given by $\cos(\theta) = z/r$

$r = \sqrt{x^2 + y^2 + z^2}$

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Chemistry where M is the molar mass

and N_A is Avogadro's constant: $v_p = \sqrt{2mk_B T}$

$$= \sqrt{2(1.3806568 \times 10^{-23} \text{ J K}^{-1})(298.15 \text{ K})}$$

$$= \sqrt{4.652 \times 10^{-26} \text{ kg}}$$

$$= 420.7 \text{ m s}^{-1}$$

For a rough graph,

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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.

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Maths for Chemists Mcquarrie

Solutions to exercises 1B.1(b) The mean speed is $\sqrt{8RT/M}$ The mean translational kinetic energy is $\frac{3}{2}RT$ $\frac{3}{2}kT$ 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) $\frac{v_{\text{mean},H}}{v_{\text{mean},Hg}} = \sqrt{\frac{200.6}{4.003}}$ $\frac{v_{\text{rms},1}}{v_{\text{rms},2}} = \sqrt{\frac{E_{k,1}}{E_{k,2}}}$ (ii) The mean translation kinetic energy is independent of molecular mass and depends upon temperature alone!

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Abstract. The objectives of Physical Chemistry: Concepts and Theory are presented. The book is organized in accordance with the mathematics used: continuum for thermodynamics; discrete for quantum theory; statistics and

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probabilities for statistical mechanics; and the mathematics for potential-driven changes at short and long times for kinetics.

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