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thesineandcosinetotheappropriatenumberofdigits. (31

) $2\pi \text{ rad } 360 = 0.54 \text{ rad}$ $\sin(30.5^\circ) = 0.5075$ $\sin(31.5^\circ)$

$= 0.5225$ $\sin(31^\circ) = 0.51$ $\cos(30.5^\circ) = 0.86163$

$\cos(31.5^\circ) = 0.85264$ $\cos(31^\circ) = 0.86$ 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.

$$\cos(\theta) = \frac{z}{\sqrt{x^2 + y^2 + z^2}}$$

Mathematics for Physical Chemistry b. The function is given by $\psi_{211} = \sqrt{\frac{8}{\pi}} \frac{z}{r^2} \exp(-\frac{z}{a_0})$

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the molar mass and N_A is Avogadro's constant: $v_p = \sqrt{2mk_B T} = 2(1.3806568 \times 10^{-23} \text{ J K}^{-1})(298.15 \text{ K})$
 $(4.652 \times 10^{-26} \text{ kg})^{1/2} = 420.7 \text{ m s}^{-1}$ 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. $a (x+ y) = 6 (3 + 5) = 6 \times 8 = 48$ 2. $(a x) + (a y) = (6 \times 3) + (6 \times 5) = 18 + 30 = 48$ 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

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Solutions to exercises 1B.1(b) The mean speed is $\sqrt{8RT/m}$
The mean translational kinetic energy is $\frac{3}{2}kT$
The ratios of species 1 to species 2 at the same temperature are $\sqrt{m_2/m_1}$
(i) $\sqrt{2}$ and $\sqrt{200.6/4.003}$
(ii) The mean translational kinetic energy is independent of molecular mass and depends upon temperature alone!

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