

## Mathematics For Physical Chemistry Solutions Mcquarrie

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Write this function in terms of Cartesian coordinates. cos (\u03b8) = z /r\u0020\u0002 \u0003/2 1 1 = \u00b1 4 2\ a\u0000e z (x 2 + y 2 + z 2 )1/2 \times exp \u00b1 a\u0020 2a\u0020 fe16 Mathematics for Physical Chemistry b. The \u03b8211 function is given by \u00b1 8 \u0002 1 a\u0000003/2 12.

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e46 Mathematics for Physical Chemistry where M is the molar mass and NAv is Avogadro's constant: vp = 2mkBT = 2(1.3806568 \times 10\u207b\u00b2\u00b3 J K\u207b\u00b9)(298.15 K) (4.652 \times 10\u207b\u00b2\u00b6 kg) 1/2 = 420.7 m s\u207b\u00b9 For a rough graph, we omit a constant factor and plot the function g = u\u00b2 e\u207b\u207au\u00b2 where u = v/vp. 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 8 = 48 2.(a x) + (a y) = (6 3) + (6 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

Solutions to exercises 1B.1(b) The mean speed is 8RT vmean M The mean translational kinetic energy is m 3RT 3kT 2 M 2 The ratios of species 1 to species 2 at the same temperature are Ek vmean,1 vmean,2 (i) 1 2 mv 2 M1 vmean,H 1 2 m v2 and 2 vmean,Hg 200.6 4.003 1 2 2 mvrms Ek 1 Ek 2 7.079 (ii) The mean translation kinetic energy is independent of molecular mass and depends upon temperature alone!

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Physical Chemistry | ScienceDirect

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