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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.

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that although chemistry is an experimental science aimed at pre-paring new compounds and materials, mathematics is very useful in chemistry, among other things, to produce models that can guide experimental work to a target by the shortest possible route. Key words: roots of chemistry, roots of mathematics, mathematical

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3 Bragg's Law: a fundamental law of x-ray crystallography.  $n\lambda = 2d \sin \theta$  where  $\lambda$  = wavelength of the x-rays incident on a crystal lattice with planes a distance  $d$  apart,  $n$  is an integer (whole number), and  $\theta$ , the Bragg angle, is the angle between the incident beam and the reflecting planes. Matrices and Determinants The  $2 \times 2$  matrix  $A = \begin{pmatrix} a & b \\ c & d \end{pmatrix}$  has determinant  $|A| = ad - bc$  The  $3 \times 3$  matrix  $A =$

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E. JOSEPH BILLO retired in 2006 as associate professor of chemistry at Boston College and is the author of Excel @ for Chemists: A Comprehensive Guide, Second Edition. He has presented the two-day short courses "Advanced Excel for Scientists and Engineers" and "Excel Visual Basic Macros for Scientists and Engineers" to over 2,000 scientists at corporate clients in the U.S., Canada, and Europe.