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e4 Mathematics for Physical Chemistry the sine and cosine to the appropriate number of digits. $(31^\circ) \approx \frac{\pi}{6} \text{ rad}$ $360^\circ = 2\pi \text{ rad}$
 $\sin(30.5^\circ) = 0.5075$ $\sin(31.5^\circ) = 0.5225$ $\sin(31^\circ) = 0.51$ $\cos(30.5^\circ) = 0.86163$ $\cos(31.5^\circ) = 0.85264$
 $\cos(31^\circ) = 0.86$ 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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Mathematics for Physical Chemistry: Robert G. Mortimer

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are, in most cases, either

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Mathematical Review for Physical Chemistry Students Thomas L. Beck Department of Chemistry University of Cincinnati 1 Introduction: This set of notes reviews the basic mathematical techniques that are necessary to understand the material in an upper level undergraduate physical chemistry course.

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