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? (f (x))2 dx. a. ?. b. x (f (x))2 dx a. h f (x)dx ? (y 0 + 2 y1 + 2 y 2 + ... + 2 y N ?1 + y N) 2. h f (x)dx ? (y 0 + 4 y1 + 2 y 2 + 4 y 3 + 2 y 4 + ... + 4 y N ?1 + y N) 3. CIVE 259901 Formula Sheet ii/ii. 2.

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q = heat transferred per unit time (W, Btu/hr) A = heat transfer area of the surface (m 2, ft 2) h c = convective heat transfer coefficient of the process (W/ (m 2 K) or W/ (m 2o C), Btu/ (ft 2 h...

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a2?(2a?ab)?a(3b+a) =a2?2a+ab?3ab?a2. Collecting similar terms together gives: ?2a?2ab. Since ?2ais a common factor, the answer can be expressed as ?2a(1+b) Problem 28. Simplify (a+b)(a?b) Each term in the second bracket has to be multiplied by each term in the ?rst bracket.Thus: (a+b)(?)= =a2?ab+ab?b2=a2?b2.

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Euler's Polyhedra Formula by Euler, 1751. Source: Giphy. According to Euler's formula, by adding the vertices and faces of a Polyhedra (the three-dimensional versions of polygons) together, and subtract their edges, you will always get 2. This is true regardless the number of faces of your

polyhedron. Wave Equation by J.d'Almbert, 1746

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In Cartesian coordinates ?= ?(x,y,z); in cylindrical polar coordinates ?= ?(ˆ,',z); in spherical polar coordinates ?= ?(r, ,'); in cases with radial symmetry ?= ?(r). Ais a vector function whose components are scalar functions of the position coordinates: in Cartesian coordinatesA=iAx+jAy+kAz, whereAx,Ay,Az.

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Simplify 1 4 ?2 1 5 × 5 8 + 9 10 1 4 ?2 1 5 × 5 8 + 9 10 = 1 4 ? 11 5 × 5 8 + 9 10 = 1 4 ? 11 1 × 1 8 + 9 10 by cancelling = 1 4 ? 11 8 + 9 10 (M) = 1×10 4×10 ? 11×5 8×5 + 9×4 10×4 (since the LCM of 4, 8 and 10 is 40) 14BasicEngineeringMathematics. = 10 40 ? 55 40 + 36 40 = 10?55+36 40 (A/S) =?. 9 40 Problem 19.

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