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Engineering Science Data Booklet Higher

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PLTW, Inc. Engineering Formulas Mode Mean n = number of data values max events A and B and C occurring in sequence $x A q = 1 P(\sim A) =$ probability of event A Engineering Formula Sheet Probability Conditional Probability Binomial Probability (order doesn't matter) $P k (=$ binomial probability of k successes in n trials $p =$ probability of a success

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IFE Formula Sheet v2.2 - Fire Engineering Science Page 10 6. MATHEMATICS Area of a Circle = $2 \text{ or } = \pi r^2$ Where: $A =$ Area of circle in metres squared (m^2) $\pi =$ Pi (constant - use 3.1416) $r =$ Radius of circle in metres $d =$ Diameter of circle in metres Volumes Sloping tank = length x breadth x average depth

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Velocity ratio $VR =$ Input speed x input size = output speed x output size Torque $T = Fr$ Circumference of circle $C = \pi d$ Moment of force $M = Fx$ (x is perpendicular distance) Principle of moments $\Sigma M = 0 \Sigma$ clockwise moments = Σ anti-clockwise moments Conditions of equilibrium $\Sigma F. h. = 0 \Sigma F. V. = 0 \Sigma M = 0.$

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D (D t) t W P e

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Conic Sections Circle Standard Form $2x^2 + y^2 + kx + 2r \dots$ General form: $Ax^2 + Cy^2 + Dx + Ey + F = 0$. Pre Calculus Conic sections formula sheet: Filesize: 580 KB. Language: English. Published: November 25, 2015. Viewed: 1,388 times.

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4. Calculations and evaluation of formulae 16 4.1 Errors and approximations 16 4.2 Use of calculator 17 4.3 Conversion tables 18 4.4 Evaluation of formulae 19 5. Algebra 21 5.1 Basic operations 21 5.2 Laws of indices 22 5.3 Brackets and factorisation 23 5.4 Fundamental laws and precedence 24 6. Simple equations 26 6.1 Expressions, equations and ...

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