7 Let $I_n = \int_0^1 (1-x)^n e^x \, dx$. Show that, for all positive integers n,

$$I_n = nI_{n-1} - 1.$$ [3]

Find the exact value of I_4. [4]

By considering the area of the region enclosed by the x-axis, the y-axis and the curve with equation $y = (1-x)^4 e^x$ in the interval $0 \leqslant x \leqslant 1$, show that

$$\tfrac{65}{24} < e < \tfrac{11}{4}.$$ [3]

8 A circle has polar equation $r = a$, for $0 \leqslant \theta < 2\pi$, and a cardioid has polar equation $r = a(1 - \cos\theta)$, for $0 \leqslant \theta < 2\pi$, where a is a positive constant. Draw sketches of the circle and the cardioid on the same diagram. [3]

Write down the polar coordinates of the points of intersection of the circle and the cardioid. [2]

Show that the area of the region that is both inside the circle and inside the cardioid is

$$(\tfrac{5}{4}\pi - 2)a^2.$$ [6]

9 Given that

$$x\frac{d^2y}{dx^2} + (2x+2)\frac{dy}{dx} + (2 - 3x)y = 10e^{2x}$$

and that $v = xy$, show that

$$\frac{d^2v}{dx^2} + 2\frac{dv}{dx} - 3v = 10e^{2x}.$$ [4]

Find the general solution for y in terms of x. [7]

10 The line l_1 is parallel to the vector $\mathbf{i} - 2\mathbf{j} - 3\mathbf{k}$ and passes through the point A, whose position vector is $3\mathbf{i} + 3\mathbf{j} - 4\mathbf{k}$. The line l_2 is parallel to the vector $-2\mathbf{i} + \mathbf{j} + 3\mathbf{k}$ and passes through the point B, whose position vector is $-3\mathbf{i} - \mathbf{j} + 2\mathbf{k}$. The point P on l_1 and the point Q on l_2 are such that PQ is perpendicular to both l_1 and l_2. Find

 (i) the length PQ, [5]

 (ii) the cartesian equation of the plane Π containing PQ and l_2, [4]

 (iii) the perpendicular distance of A from Π. [3]

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Lorena Bociu,Jean-Antoine Désidéri,Abderrahmane Habbal

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distrust in scientific findings among the general public scientists funding agencies and industries While studies fail for a variety of reasons many factors contribute to the lack of perfect reproducibility including insufficient training in experimental design misaligned incentives for publication and the implications for university tenure intentional manipulation poor data management and analysis and inadequate instances of statistical inference The workshop summarized in this report was designed not to address the social and experimental challenges but instead to focus on the latter issues of improper data management and analysis inadequate statistical expertise incomplete data and difficulties applying sound statistic inference to the available data Many efforts have emerged over recent years to draw attention to and improve reproducibility of scientific work This report uniquely focuses on the statistical perspective of three issues the extent of reproducibility the causes of reproducibility failures and the potential remedies for these failures **Risk Assessment and Decision Analysis with Bayesian Networks** Norman Fenton,Martin Neil,2018-09-03 Since the first edition of this book published Bayesian networks have become even more important for applications in a vast array of fields This second edition includes new material on influence diagrams learning from data value of information cybersecurity debunking bad statistics and much more Focusing on practical real world problem solving and model building as opposed to algorithms and theory it explains how to incorporate knowledge with data to develop and use Bayesian causal models of risk that provide more powerful insights and better decision making than is possible from purely data driven solutions Features Provides all tools necessary to build and run realistic Bayesian network models Supplies extensive example models based on real risk assessment problems in a wide range of application domains provided for example finance safety systems reliability law forensics cybersecurity and more Introduces all necessary mathematics probability and statistics as needed Establishes the basics of probability risk and building and using Bayesian network models before going into the detailed applications A dedicated website contains exercises and worked solutions for all chapters along with numerous other resources The AgenaRisk software contains a model library with executable versions of all of the models in the book Lecture slides are freely available to accredited academic teachers adopting the book on their course ECEL 2018 17th European Conference on e-Learning Klimis Ntalianis,Antonios Andreatos,Cleo Sgouropoulou,2018-11-01 The European Conference on e Learning was established 17 years ago It has been held in France Portugal England The Netherlands Greece and Denmark to mention only a few of the countries who have hosted it ECEL is generally attended by participants from more than 40 countries and attracts an interesting combination of academic scholars practitioners and individuals who are engaged in various aspects of e Learning Among other journals the Electronic Journal of e Learning publishes a special edition of the best papers presented at this conference Noncommutative Geometry and Optimal Transport Pierre Martinetti,Jean-Christophe Wallet,2016-10-26 The distance formula in noncommutative geometry was introduced by Connes at the end of the 1980s It is a generalization of Riemannian geodesic distance that makes sense in a noncommutative setting and provides an original tool to study the

geometry of the space of states on an algebra It also has an intriguing echo in physics for it yields a metric interpretation for the Higgs field In the 1990s Rieffel noticed that this distance is a noncommutative version of the Wasserstein distance of order 1 in the theory of optimal transport More exactly this is a noncommutative generalization of Kantorovich dual formula of the Wasserstein distance Connes distance thus offers an unexpected connection between an ancient mathematical problem and the most recent discovery in high energy physics The meaning of this connection is far from clear Yet Rieffel s observation suggests that Connes distance may provide an interesting starting point for a theory of optimal transport in noncommutative geometry This volume contains several review papers that will give the reader an extensive introduction to the metric aspect of noncommutative geometry and its possible interpretation as a Wasserstein distance on a quantum space as well as several topic papers **Multiple-Valued Neutrosophic Uncertain Linguistic Sets With Dombi Normalized Weighted Bonferroni Mean Operator and Their Applications in Multiple Attribute Decision Making Problem** LIHUA YANG,BAOLIN LI, In order to take into account quantitative and qualitative information in real complex decision making issue a multiple valued neutrosophic uncertain linguistic set MVNULS is initially proposed which includes the uncertain linguistic part and the multiple valued neutrosophic set MVNS Consequently it has the advantages of them in expressing evaluation information **Hilāl** ,2014 **The Journal of Integral Equations and Applications** ,2016 *The Publisher* ,1915 Calcutta Gazette Bengal (India),1913 **Kochi Journal of Mathematics** ,2015 *Publishers' Circular and Booksellers' Record of British and Foreign Literature* ,1915 **The City Record** New York (N.Y.),1918 **The Publishers' Circular and Booksellers' Record** ,1915 **British Books** ,1915 **Catalogue of Scientific Papers** ,1896 **Catalogue of Scientific Papers** Royal Society (Great Britain),1896 Catalogue of Scientific Papers (1800-1900): ser. 3 , 1874-1883 Royal Society (Great Britain),1896

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