**Exercice 1 :** (2023 SN) (3pts)

On a $B(2;1;2)$ ; $C(2;5;0)$ : $A(0;1;4)$.

1) a) **Montrer que :** $\overrightarrow{AB} \wedge \overrightarrow{AC} = 4(2\vec{i} + \vec{j} + 2\vec{k})$

$$\overrightarrow{AB}\begin{pmatrix} 2 \\ 0 \\ -2 \end{pmatrix} \text{ et } \overrightarrow{AC}\begin{pmatrix} 2 \\ 4 \\ -4 \end{pmatrix}$$

$$\overrightarrow{AB} \wedge \overrightarrow{AC} = \begin{vmatrix} 0 & 4 \\ -2 & -4 \end{vmatrix}\vec{i} - \begin{vmatrix} 2 & 2 \\ -2 & -4 \end{vmatrix}\vec{j} + \begin{vmatrix} 2 & 2 \\ 0 & 4 \end{vmatrix}\vec{k}$$

$$= 8\vec{i} + 4\vec{j} + 8\vec{k}$$

D'où $\overrightarrow{AB} \wedge \overrightarrow{AC} = 4(2\vec{i} + \vec{j} + 2\vec{k})$

b) **En déduire l'aire de triangle ABC et la distance** $d(B,(AC))$

$$S_{ABC} = \frac{1}{2}\left\| \overrightarrow{AB} \wedge \overrightarrow{AC} \right\| \text{ or } \overrightarrow{AB} \wedge \overrightarrow{AC} = 4(2\vec{i} + \vec{j} + 2\vec{k})$$

$$S_{ABC} = \frac{1}{2}\left\| 4(2\vec{i} + \vec{j} + 2\vec{k}) \right\| = \frac{4}{2}\left\| 2\vec{i} + \vec{j} + 2\vec{k} \right\|$$

Donc $S_{ABC} = 2\sqrt{2^2 + 1^2 + 2^2} = 2\sqrt{9}$

D'où $S_{ABC} = 6$

On a $d(B,(AC)) = \dfrac{\left\| \overrightarrow{AB} \wedge \overrightarrow{AC} \right\|}{\left\| \overrightarrow{AC} \right\|} = \dfrac{4\sqrt{2^2 + 1^2 + 2^2}}{\sqrt{2^2 + 4^2 + (-4)^2}}$

Donc $d(B,(AC)) = \dfrac{4\sqrt{9}}{\sqrt{36}} = 2$ d'où $d(B,(AC)) = 2$

2) Soit D le milieu du segment [AC]

a) **Vérifier que :** $\overrightarrow{D\Omega} = \frac{1}{4}\left(\overrightarrow{AB} \wedge \overrightarrow{AC}\right)$

D est le milieu du segment [AC]

Donc $D\left(\dfrac{0+2}{2} ; \dfrac{1+5}{2} ; \dfrac{4+0}{2}\right)$ donc $D(1;3;2)$

Or $\Omega(3;4;4)$ donc $\overrightarrow{D\Omega}(2;1;2)$ donc $\overrightarrow{D\Omega} = 2\vec{i} + \vec{j} + 2\vec{k}$

Or $\overrightarrow{AB} \wedge \overrightarrow{AC} = 4(2\vec{i} + \vec{j} + 2\vec{k})$ donc $\overrightarrow{AB} \wedge \overrightarrow{AC} = 4\overrightarrow{D\Omega}$

D'où $\overrightarrow{D\Omega} = \frac{1}{4}\left(\overrightarrow{AB} \wedge \overrightarrow{AC}\right)$

b) **En déduire que** $d(\Omega,(ABC)) = 3$

On a $\overrightarrow{AB} \wedge \overrightarrow{AC}$ est normal au plan (ABC).

Et puisque $\overrightarrow{D\Omega} = \frac{1}{4}\left(\overrightarrow{AB} \wedge \overrightarrow{AC}\right)$ donc $\overrightarrow{D\Omega}$ est normal au plan (ABC) donc $(D\Omega) \perp (ABC)$

Or D est le milieu du segment [AC] donc $D \in (ABC)$

Donc D est la projection orthogonal de $\Omega$ sur (ABC)

Donc $d(\Omega,(ABC)) = D\Omega$ or $\overrightarrow{D\Omega} = 2\vec{i} + \vec{j} + 2\vec{k}$

Donc $D\Omega = \sqrt{2^2 + 1^2 + 2^2} = \sqrt{9} = 3$

D'où $d(\Omega,(ABC)) = 3$

3) Soit (S) la sphère d'équation :
$$x^2 + y^2 + z^2 - 6x - 8y - 8z + 32 = 0$$

a) **Déterminer le centre et le rayon de (S).**

$x^2 + y^2 + z^2 - 6x - 8y - 8z + 32 = 0$

$a = \dfrac{-6}{-2}$ : $b = \dfrac{-8}{-2}$ : $c = \dfrac{-8}{-2}$ : $d = 32$

Donc $a = 3$ : $b = 4$ : $c = 4$ : $d = 32$

$a^2 + b^2 + c^2 - d = 3^2 + 4^2 + 4^2 - 32 = 9$

Donc le centre de (S) est $\Omega(3;4;4)$ et $R = \sqrt{9} = 3$

D'où $\Omega(3;4;4)$ et rayon $R = 3$

b) **Montrer que le plan (ABC) est tangent à la sphère (S) en un point que l'on déterminera.**

On a $d(\Omega,(ABC)) = 3$ et $R = 3$

Donc le plan (ABC) est tangent à la sphère (S).

Donc (ABC) coupe la sphère (S) en un seule point.

Or $D\Omega = 3$ et $R = 3$ donc $D \in (S)$ or $D \in (ABC)$

$(ABC) \cap (S) = \{D\}$

D'où le plan (ABC) est tangent à la sphère (S) en D.

4) soit $(Q_1)$ et $(Q_2)$ les deux plans parallèles à (ABC).Tels que chacun d'eux coupe (S) suivant un cercle de rayon $\sqrt{5}$.

Déterminer une équation cartésienne pour chacun des deux plans $(Q_1)$ et $(Q_2)$.

Soit (Q) un plan parallèle à (ABC) tel que :

(Q) coupe (S) suivant un cercle de rayon $\sqrt{5}$.

On a $\overrightarrow{D\Omega} = \frac{1}{4}\left(\overrightarrow{AB} \wedge \overrightarrow{AC}\right)$ : $\overrightarrow{AB} \wedge \overrightarrow{AC}$ normal à (ABC)

(Q) est parallèle à (ABC) et on a $\overrightarrow{D\Omega}$ est normal au plan (ABC) donc $\overrightarrow{D\Omega}$ est normal au plan (Q)

Soit $M(x;y;z) \in (Q)$

$\overrightarrow{D\Omega}(2;1;2)$ est normal à (Q)

$(Q) : 2x + y + 2z + d = 0$

(Q) coupe (S) suivant un cercle de rayon $\sqrt{5}$.

$\sqrt{5} = \sqrt{3^2 - (d(\Omega;(Q)))^2} \Leftrightarrow 3^2 - (d(\Omega;(Q)))^2 = 5$

$(d(\Omega;(Q)))^2 = 9 - 5 \Leftrightarrow (d(\Omega;(Q)))^2 = 4$

# 2013 Math Rct

**Dafna Lemish,Amy Jordan,Vicky Rideout**

**2013 Math Rct:**

*Early mathematics counts* Yasmin A Sitabkhan,Linda Platas,2018-07-23 This occasional paper examines common instructional strategies in early grade mathematics interventions through a review of studies in classrooms in low and middle income countries Twenty four studies met the criteria for inclusion and analyses reveal four sets of instructional strategies for which there is evidence from multiple contexts Of the 24 studies 16 involved the use of multiple representations 10 involved the use of developmental progressions 6 included supporting student use of explanation and justification and 5 included integration of informal mathematics Based on the review we provide conclusions and recommendations for future research and policy **The Routledge Handbook of the Economics of Education** Brian P. McCall,2021-12-30 The economics of education is a burgeoning area of study employing increasingly sophisticated analytical tools to answer questions with high societal impact Thus the aim of this handbook is to provide readers with an up to date overview of the current state of the field of the economics of education and its main areas of research This comprehensive handbook provides an authoritative overview of key theoretical and policy areas covering topics like econometric methods for education economics returns to education competition in education provision education and economic growth and education and inequality It reviews the current state of research from early childhood through postgraduate education as well as adult education and life long learning Offering a truly international perspective the handbook benefits from a global group of contributors and attention to both developed and developing country contexts The Routledge Handbook of the Economics of Education will be a valuable resource for advanced students researchers and policymakers across economics education and public policy *Children, Adolescents, and Media* Dafna Lemish,Amy Jordan,Vicky Rideout,2018-10-11 Bringing together the leading researchers on children adolescents and the media this books offers their cutting edge big picture ideas for the future of research and scholarship in the field Individual chapters focus on topics such as the role of big data in media research digital literacy parenting in the era of mobile media media diversity in the digital age the impact of media on child development children s digital rights the implications of intelligent characters and parasocial relationships and the effectiveness of transmedia for informal education Several chapters also explore the theoretical and methodological challenges facing children s media researchers Offering new directions for research the contributors consider the implications of the changing media landscape for parents educators advocates and producers Leading scholars from North America Europe and Asia grounded in different theoretical and methodological traditions join forces to discuss the impact of growing up in a media saturated world and to stimulate thinking about the field of children and media in unexpected ways This book was originally published as two special issues of the Journal of Children and Media **Handbook of Social and Emotional Learning** , Handbook of Education Policy Research Lora Cohen-Vogel,Peter Youngs,Janelle Scott,2025-07-17 The second edition of the Handbook of Education Policy Research the largest volume published in AERA s history addresses a

variety of policy and contextual issues in early childhood K 12 and postsecondary education that have received extensive empirical attention during the past 15 years With the pandemic and social turmoil as a backdrop the editors build on the breadth and depth of the first edition while expanding the scope of the project to include subjects methods theories and analyses that have contributed powerfully to the study of education policy and politics in the 2010s and 2020s The field has become more comprehensive and inclusive and the authors represent a diversity of racial ethnic and gender identities and intellectual and disciplinary orientations Most chapters come from multiple authors reflecting the multi sourced development of research in education policy since the first volume was published This compilation consists of 70 chapters and nine commentaries that map past present and future directions of the field and richly attend to critical issues of interest to students researchers policy makers and practitioners **Transforming the Workforce for Children Birth Through Age 8** National Research Council,Institute of Medicine,Board on Children, Youth, and Families,Committee on the Science of Children Birth to Age 8: Deepening and Broadening the Foundation for Success,2015-07-23 Children are already learning at birth and they develop and learn at a rapid pace in their early years This provides a critical foundation for lifelong progress and the adults who provide for the care and the education of young children bear a great responsibility for their health development and learning Despite the fact that they share the same objective to nurture young children and secure their future success the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well Transforming the Workforce for Children Birth Through Age 8 explores the science of child development particularly looking at implications for the professionals who work with children This report examines the current capacities and practices of the workforce the settings in which they work the policies and infrastructure that set qualifications and provide professional learning and the government agencies and other funders who support and oversee these systems This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning shared knowledge and competencies for care and education professionals and principles for effective professional learning Young children thrive and learn best when they have secure positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress Transforming the Workforce for Children Birth Through Age 8 offers guidance on system changes to improve the quality of professional practice specific actions to improve professional learning systems and workforce development and research to continue to build the knowledge base in ways that will directly advance and inform future actions The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive and ultimately improve outcomes for children **On Board** ,2003 **Mathematical Reviews** ,1998 *Children's Books in Print* R R

Bowker Publishing,Bowker,1999-12 **Impact Evaluation of Energy Interventions** Nina Blöndal David A. Raitzer,Nina Blöndal,Asian Development Bank,Jasmin Sibal,2019 This report aims to support impact evaluation in the energy sector by assessing what has been produced against what might be possible It reviews 85 impact evaluations of energy interventions in developing countries summarizes findings on outcomes identifies evidence gaps and proposes ways forward It notes that impact evaluation has so far focused on rural electrification and improved cookstoves while most investments are in power generation and transmission It highlights where future impact evaluation investments can best contribute new evidence and how such studies could be approached Chemical Abstracts ,2002 *Hurst's the Heart, 14th Edition: Two Volume Set* Valentin Fuster,Robert A. Harrington,Jagat Narula,Zubin J. Eapen,2017-03-22 Cardiology s cornerstone text thoroughly updated to reflect the latest clinical perspectives and cutting edge topics Hailed for its authority currency and ability to translate the latest technical and clinical advances into clinical application Hurst s The Heart is the field s landmark text and cardiology s longest continuously published reference text A previous edition of this trusted classic was described by Doody s as an outstanding choice for those who strive for a firm foundation in cardiovascular medicine as well as an up to date and user friendly source that addresses every discipline in the field Readers will find succinct visually appealing summaries of all the major new trials and guidelines along with tips for optimizing outcomes and health quality The Fourteenth Edition has been completely updated to reflect the latest technical therapeutic and clinical advances while still maintaining a strong focus on patient care Other enhancements include the addition of textual features such as Practice Points Common Clinical Questions and an increased number of the acclaimed Hurst s diagrams NEW TO THIS EDITION Section on Metabolic Disorders and Cardiovascular Disease Cigarette Smoking and Cardiovascular Disease Enhanced by more than 1 500 full color illustrations and more than 500 tables Brand new chapters include Arrythmogenic Cardiomyopathy Ischemic Mitral Regurgitation Degenerative Mitral Valve Disease Left Ventricular Noncompaction Evaluation and Management of Acute Heart Failure Carotid Artery Stenting Race Ethnicity and Cardiovascular disease The only comprehensive cardiology reference to publish every 2 5 years to allow for reporting of the latest trials and guidelines **Forthcoming Books** Rose Arny,1996-06 *Commonwealth Universities Yearbook* Association of Commonwealth Universities, London, 1985,1985 *Dermatologic Surgery* Jonathan Kantor,2018-04-27 Introducing the book that bridges the gap between a dermatologic surgery textbook and a dedicated flap and reconstructive guide Dermatologic Surgery is a unique resource that offers the benefits of both a single volume multi author global dermatologic surgery textbook and a dedicated flap and reconstructive reference Conveniently organized by flap type as well as regional approach it offers by far the most comprehensive flap and reconstruction sections of any general dermatologic surgery book The book s content breakdown attempts to reflect the proportion of time effort and training required for a given subject For example there are five full chapters in addition to numerous other sections dedicated to Mohs surgery Similarly a total of 17 richly illustrated chapters including those devoted

to particular flap techniques and regional approaches to reconstruction address flap and graft closures Since anatomy is the foundation on which all surgery is built the anatomy chapter was built on a true ground up cadaveric study of head and neck anatomy with an eye to clinical relevance Full length high quality videos are an essential adjunct to learning procedural techniques and this text includes the largest video resource of its kind ever compiled This coupled with almost 3 000 high quality clinical photographs and nearly 500 professional medical illustrations including infographics with surgical pearls for each chapter many bolstered by beginner tips expert tips cautions patient education points and even billing tips make this a true primer for real world skin surgery practice **Referativnyĭ zhurnal** ,1973 Science Citation Index ,1994 Vols for 1964 have guides and journal lists **Current Research in Britain** ,1996 Hudson's Army and Navy List ,1884-12

Adams and Victor's Principles of Neurology 10th Edition Allan H. Ropper,Martin A. Samuels,Joshua Klein,2014-05-25 The gold standard text that has defined neurology updated for today s practice in full color The definitive text on the full spectrum of neurology for decades Adams and Victor s provides the treatment and management strategies needed to confidently handle both common and rare neurologic conditions Written in a clear consistent tone this classic resource will meet the needs of the seasoned professional or the aspiring clinician Written from the perspective of the general neurologist Adams and Victor s has been hailed as the most detailed thorough and authoritative text available on the subject Adams and Victor s Principles of Neurology Tenth Edition describes the various categories of neurologic disease and the main diseases that constitute each Each subject is introduced by a detailed discussion of the symptoms and signs of disordered nervous function their anatomic and physiologic bases and their clinical implications Adams and Victor s Principles of Neurology is logically divided into six parts The Clinical Method of Neurology Cardinal Manifestations of Neurologic Disease Growth and Development of the Nervous System in the Neurology of Aging Major Categories of Neurologic Disease Diseases of the Spinal Cord Peripheral Nerve and Muscle Psychiatric Disorders The Tenth Edition is highlighted by the welcome addition of full color photographs expanded coverage of important subspecialties and an increased number of tables and figures Edition after edition Adams and Victor s has stayed true to its original mission to provide a well written readable text emphasizing a disciplined presentation of clinical data and lucid descriptions of underlying disease processes

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