

## Academic Challenge 2017 Topic Distribution – Mathematics

Topic	Regional	Sectional	State
Algebra	8	7	6
Geometry	5	5	4
Probability and Statistics	2	2	3
Trigonometry	3	3	2
Conic Sections	1	1	1
Logarithms and Exponents	4	3	3
Matrices and Determinants	1	1	1
Vectors	0	0	1
Complex Numbers	1	1	1
Polar Coordinates	1	1	0
Series and Sequences	1	1	1
Parametric Equations	1	1	1
Pre-Calculus / Calculus	1	3	5
Logic	1	1	1
<b>Total -----</b>	30	30	30

### Bibliography / Reference List Mathematics

[ Title -- Edition -- Author(s) -- Publisher -- Copyright Date -- ISBN ]

Advanced Mathematical Concepts, Third Edition, Yunker, Crosswhite, Elswick & Vannatta, Merrill, 1991. ISBN # 0-675-06000-1

Calculus and Analytical Geometry, Third Edition, Edwards & Penney, Prentice Hall, 1990, ISBN # 0-13-111204-X

College Algebra, Second Edition, Coburn, McGraw Hill, 2009, ISBN # 978-0-07-351941-8

Finite Mathematics, Fourth Edition, Warner & Costenoble, Thompson / Brooks-Cole, 2007, ISBN # 0-495-01702-7

Introductory Combinatorics, Fourth Edition, Brualdi, Pearson Prentice Hall, 2004. ISBN # 0-13-100119-1

Linear Algebra, Fourth Edition, Friedberg, Insel & Spence, Pearson Prentice Hall, 2003. ISBN # 0-13-008451-4

Precalculus: Mathematics for Calculus, Fifth Edition, Stewart, Redlin and Watson, Brooks/Cole, 2009. ISBN # 0-534-49290-8.

Symmetry, Shape, and Space, First Edition, L.C. Kinsey & T.E. Moore, Key College Publishing, 2002, ISBN # 1-930190-09-3