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Full-PSPs (numbers correlate with posted PSP Descriptions)	Intended Course(s)	Author
F 01. A Genetic Context for Understanding the Trigonometric Functions	Pre-calculus, Trigonometry *	Danny Otero
F 02. Determining the Determinant	Linear Algebra	Danny Otero
F 03. Solving a System of Linear Equations Using the Ancient Chinese Methods	Linear Algebra *	Mary Flagg
F 04. Investigating Difference Equations	Discrete Mathematics	Dave Ruch
F 05. Quantifying Certainty: the p-value	Statistics	Dominic Klyve
F 06. Pythagorean Theorem and Exigency of Parallel Postulate	Geometry *	Jerry Lodder
F 07. Failure of the Parallel Postulate	Geometry	Jerry Lodder
F 08. Dedekind and the Creation of Ideals	Abstract Algebra	Janet Barnett
F 09. Primes, Divisibility & Factoring	Number Theory *	Dominic Klyve
F 10. The Pell Equation in Indian Mathematics	Number Theory *	Toke Knudsen & Keith Jones
F 11. Greatest Common Divisor: Algorithm and Proof	Intro. to Proof, Number Theory, Discrete Math., Abstract Algebra	Mary Flagg
F 12. The Möbius Inversion Formula	Number Theory	Carl Lienert
F 13. Bolzano on Continuity and the Intermediate Value Theorem	Introductory Analysis	Dave Ruch
F 14. Rigorous Debates over Debatable Rigor in Analysis: Monster Functions in Introductory Analysis	Introductory Analysis	Janet Barnett
F 15. An Introduction to Algebra and Geometry in the Complex Plane	Complex Variables	Diana White & Nick Scoville
F 16. Nearness without Distance	Topology	Nick Scoville
F 17. Connectedness - Its Evolution and Applications	Topology	Nick Scoville
F 18. Construction of Figurate Numbers	General Education *	Jerry Lodder
F 19. Pascal's Triangle and Mathematical Induction	General Education *	Jerry Lodder
F 20. The French Connection: Borda, Condorcet and the Mathematics of Voting Theory	Math for Liberal Arts, General Education *	Janet Barnett
F 21. An Introduction to a Rigorous Definition of Derivative	Introductory Analysis	Dave Ruch
F 22. Investigations into Bolzano's Bounded Set Theorem	Introductory Analysis	Dave Ruch
F 23. The Mean Value Theorem	Introductory Analysis	Dave Ruch
F 24. Abel and Cauchy on a Rigorous Approach to Infinite Series	Introductory Analysis	Dave Ruch
F 25. The Definite Integrals of Cauchy and Riemann	Introductory Analysis	Dave Ruch

Full-PSPs (numbers correlate with posted PSP Descriptions)	Intended Course(s)	Author
F 26. Gaussian Integers and Dedekind Ideals: A Number Theory Project	Number Theory *	Janet Barnett
F 27. Otto Hölder's Formal Christening of the Quotient Group Concept	Abstract Algebra	Janet Barnett
F 28. Roots of Early Group Theory in the Works of Lagrange	Abstract Algebra	Janet Barnett
F 29. Radius of Curvature According to Christiaan Huygens	Vector Calculus	Jerry Lodder
F 30. Cotes' Factorization Theorem	Complex Variables	Diana White & Nick Scoville
F 31. Cross Cultural Comparisons: The Art of Computing the Greatest Common Divisor	Elementary Education Courses	Mary Flagg
F 32. A Look at Desargues' Theorem from Dual Perspectives	Geometry / Introduction to Proof	Carl Lienert
F 33. Solving Equations and Completing the Square: From the Roots of Algebra	Pre-calculus *	Danny Otero
F 34. Argand's Development of the Complex Plane	Complex Variables *	Diana White & Nick Scoville
F 35. Riemann's Development of the Cauchy-Riemann Equations	Complex Variables	Dave Ruch
F 36. Gauss and Cauchy on Complex Integration	Complex Variables	Dave Ruch
F 37. Representing and Interpreting Data with Playfair	Statistics *	Diana White, River Bond, Joshua Eastes & Negar Janani
F 38. Runge-Kutta 4 (and Other Numerical Methods for ODE's)	Differential Equations	Adam Parker
F 39. Stitching Dedekind Cuts to Construct the Real Numbers	Introductory Analysis	Michael Saclolo
F 40. Deciphering the Calculations on Some Old Babylonian Tablets	Elementary Education *	Zoë Misiewicz

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Mini-PSPs (numbers correlate with posted PSP Descriptions)	Intended Course(s)	Author
M 01. Babylonian Numeration	General Education / Elementary Education Courses *	Dominic Klyve
M 02. L'Hôpital's Rule	Calculus *	Danny Otero
M 03. Derivatives of The Sine and Cosine Function	Calculus I *	Dominic Klyve
M 04. Beyond Riemann Sums	Calculus I *	Dominic Klyve
M 05. Fermat's Method for Finding Maxima and Minima	Calculus 1 *	Kenneth Monks
M 06. Euler's Calculation of the Sum of the Reciprocals of Squares	Calculus 2 *	Kenneth Monks
M 07. Braess' Paradox in City Planning: An Application of Multivariable Optimization	Multivariable Calculus	Kenneth Monks
M 08. The Origin of the Prime Number Theorem	Number Theory	Dominic Klyve
M 09. How to Calculate π: Machin's Inverse Tangents	Calculus 2 *	Dominic Klyve
M 10. How to calculate π: Buffon's Needle *(Two versions available, one with no calculus pre-requisite)*	Calculus 2 ; Precalculus / Courses for Middle School Teachers *	Dominic Klyve
M 11. Bhāskara's Approximation and Mādhava's Infinite Series for Sine	Calculus 2 *	Kenneth Monks
M 12. Fourier's Proof of the Irrationality of *e*	Calculus 2 *	Kenneth Monks

Mini-PSPs (numbers correlate with posted PSP Descriptions)	Intended Course(s)	Author
M 13. Gaussian Guesswork: Elliptic Integrals and Integration by Substitution	Calculus 2	Janet Barnett
M 14. Gaussian Guesswork: Polar Coordinates, Arc Length and the Lemniscate Curve	Calculus 2	Janet Barnett
M 15. Gaussian Guesswork: Sequences & the Arithmetic-Geometric Mean	Calculus 2	Janet Barnett
M 16. The logarithm of –1	Complex Variables	Dominic Klyve
M 17. Why be so critical? Origins of Analysis in 19th Century Mathematics	Introductory Analysis *	Janet Barnett
M 18. Topology from Analysis: Making the Connection	Topology / Introductory Analysis	Nick Scoville
M 19. Connecting Connectedness	Topology	Nick Scoville
M 20. The Cantor Set before Cantor	Topology	Nick Scoville
M 21. A Compact Introduction to a Generalized Extreme Value Theorem	Topology	Nick Scoville
M 22. From Sets to Metric Spaces to Topological Spaces	Topology	Nick Scoville
M 23. The Closure Operation as the Foundation of Topology	Topology	Nick Scoville
M 24. Euler's Rediscovery of *e*	Introductory Analysis / Calculus 2	Dave Ruch
M 25. Henri Lebesgue and the Integral Concept	Introductory Analysis	Janet Barnett
M 26. Generating Pythagorean Triples via Gnomons *(Two versions available, one more open-ended)*	Number Theory / Elementary Education Courses	Janet Barnett
M 27. Seeing and Understanding Data	Statistics /General Education / Elementary Education Courses *	Beverly Wood & Charlotte Bolch
M 28. Completing the Square: From the Roots of Algebra	Pre-calculus *	Danny Otero
M 29. Euler's Square Root Laws for Negative Numbers	Complex Variables	Dave Ruch
M 30. Investigations Into d'Alembert's Definition of Limit *(Two versions available, one lower-division, one upper-division)*	Calculus 2 / Introductory Analysis	Dave Ruch
M 31. Playfair's Introduction of Bar and Pie Charts to Represent Data	Statistics *	Diana White, River Bond, Joshua Eastes & Negar Janani
M 32. Playfair's Introduction of Time Series to Represent Data	Statistics *	Diana White, River Bond, Joshua Eastes & Negar Janani
M 33. Playfair's Novel Visual Displays of Data	Statistics *	Diana White, River Bond, Joshua Eastes & Negar Janani
M 34. Regression to the Mean	Statistics *	Dominic Klyve
M 35. Solving Linear First Order Differential Equations: Gottfried Leibniz's Change of Variables	Differential Equations	Adam Parker
M 36. Solving Linear First Order Differential Equations: Johann Bernoulli's Variation of Parameters	Differential Equations	Adam Parker
M 37. Solving Linear First Order Differential Equations: Leonard Euler's Integrating Factor	Differential Equations	Adam Parker
M 38. Wronskians and Linear Independence: A Theorem Misunderstood by Many	Differential Equations	Adam Parker
M 39. Leonhard Euler and Johann Bernoulli on Solving Higher Order Linear Differential Equations with Constant Coefficients	Differential Equations	Adam Parker
M 40. Fourier's Heat Equation	Differential Equations	Kenneth Monks
M 41 Cauchy's Introduction to Complex Numbers	Pre-calculus *	Maritza Branker

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