Project Bibliography

1) Boyer, Carl B. *A History of Mathematics.* 2nd ed. New York: Wiley and Sons Inc, 1991. Covers a wide range of topics related to the history of trigonometry from Babylonian times to the modern era.

2) Motz, Lloyd and Jefferson Hane Weaver. *The Story of Mathematics.* New York: Plenum Press, 1993. Contains the uses of trigonometry in astronomy and an entire subsection entitled "From Geometry to Trigonometry."

3) Gray, Jeremy. *Ideas of Space: Euclidean, Non-Euclidean, and Relativistic.* 2nd ed. Oxford: Clarendon Press, 1989. Contains points on Johann Lambert's work with trigonometry and has trigonometry problems to prove.

4) Grinstein, Louise S. and Sally I. Lipsey eds. *Encyclopedia of Mathematics Education.* New York: RoutledgeFalmer 2001. Focuses on teaching, contains a brief history and has good graphs and ideas as to how to teach trigonometry.

5) Brandenberger, Barry Max. Jr. ed. *Mathematics.* Vol 4. New York: Macmillan Reference USA, 2002. Contains a little history and show the ratios of the trig functions.

6) Struik, D.J. ed. *A Source Book in Mathematics 1200-1800.* Cambridge: Harvard University Press 1969. Discusses the works of Johannes M¸ller (Regiomontanus) and has copies of select original works.

7) Grattan-Guinness eds. *Companion Encyclopedia of the History and Philosophy of the Mathematical Sciences.* Vol 1. London: Routledge, 1994. Contains the history of ancient and non-western trigonometry and an overview of modern trig functions.

8) Giusti, Enrico. "Brief history of trigonometry." Available: http://www.math.unifi.it/archimede/archimede_inglese/trigonometria/trigonometria/prima.html Contains ancient and western contributions to trigonometry with various links.

9) O'Connor, J.J. and E.F. Robertson. "The trigonometric functions." Available: http://www-history.mcs.st-andrews.ac.uk/history/HistTopics/Trigonometric_functions.html Recounts the history of trigonometry in great length with links on the various persons whom are discussed.

10) "Trigonometry History." Available: http://www.cartage.org.lb/en/themes/Sciences/Mathematics/Trigonometry/history/History%20.html Contains a brief history of trigonometry.

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12) Sobel, Max A. and Norbert Lambert. *Algebra and Trigonometry.* 4th ed. New Jersey: Prentice Hall, 1991. Is an annotated instructor's edition trigonometry text book.

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14) "A Short History of Geometry" Available: http://www.geometryalgorithms.com/history.htm Contains a brief history and its relation to trigonometry.

15) Joyce, David E. "Sines: The relation between sines and chords." Copyright 1999. Available: http://aleph0.clarku.edu/~djoyce/java/trig/sines.html was used for the history of Sines.

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17) http://pratt.edu/~arch543p/help/history_of_mathematics.html#1 Consulted for a general over all view of the historical material.

18) *The American Heritage Dictionary.* 1995. Consulted for a modern definition of Trigonometry.