



# Quantile Report

## Pearson

**DATE:** Wednesday, September 16, 2009

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**CODES:**

- EM** Emerging Mathematician
- NMQ** Not Measurable in Quantiles
- HMC** Higher Mathematical Concept

Courtney,

Attached is the report for the Pre-Calculus text you submitted for Quantile Calibrations. I have included the contact information for our group here. If you have any questions regarding the meaning of the measures please contact Bridgett McDowell in our Quantile Department. Any questions pertaining to the agreement or future work requests can come to me. Patricia will handle the invoicing.

Thanks and talk to you soon,  
Kanista

# Quantile Textbook Report



## ***Precalculus: Enhanced with Graphing Utilities, 5th ed.***

<b><i>Publisher</i></b>	Pearson	<b><i>Copyright</i></b>	2009
<b><i>ISBN</i></b>	0131356941	<b><i>ISBN13</i></b>	
<b><i>Author</i></b>	Sullivan, Sullivan		
<b><i>StateEdition</i></b>		<b><i>Grade</i></b>	Pre-Calculus

### **1 Graphs**

1.1	Rectangular Coordinates; Graphing Utilities; Introduction to Graphing E	1240Q
1.2	Intercepts; Symmetry; Graphing Key Equations	1350Q
1.3	Solving Equations Using a Graphing Utility	1350Q
1.4	Lines	1200Q
1.5	Circles	1200Q

### **2 Functions and Their Graphs**

2.1	Functions	1250Q
2.2	The Graph of a Function	1350Q
2.3	Properties of Functions	1540Q
2.4	Library of Functions; Piecewise-defined Functions	HMC
2.5	Graphing Techniques: Transformations	1220Q
2.6	Mathematical Models: Building Functions	HMC

### **3 Linear and Quadratic Functions**

3.1	Linear Functions, Their Properties, and Linear Models	1180Q
3.2	Building Linear Models from Data	1100Q
3.3	Quadratic Functions and Their Properties	1220Q
3.4	Building Quadratic Models from Verbal Descriptions and from Data	1240Q
3.5	Inequalities Involving Quadratic Functions	1250Q

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## **4 Polynomial and Rational Functions**

4.1 Polynomial Functions and Models	1240Q
4.2 Properties of Rational Functions	1380Q
4.3 The Graph of a Rational Function	1380Q
4.4 Polynomial and Rational Inequalities	1380Q
4.5 The Real Zeros of a Polynomial Function	1340Q
4.6 Complex Zeros; Fundamental Theorem of Algebra	1350Q

## **5 Exponential and Logarithmic Functions**

5.1 Composite Functions	1300Q
5.2 One-to-One Functions; Inverse Functions	1320Q
5.3 Exponential Functions	1200Q
5.4 Logarithmic Functions	1360Q
5.5 Properties of Logarithms	1440Q
5.6 Logarithmic and Exponential Equations	1440Q
5.7 Financial Models	1470Q
5.8 Exponential Growth and Decay Models; Newton's Law; Logistic Growth	1440Q
5.9 Building Exponential, Logarithmic, and Logistic Models from Data	1400Q

## **6 Trigonometric Functions**

6.1 Angles and Their Measure	1250Q
6.2 Trigonometric Functions: Unit Circle Approach	1380Q
6.3 Properties of the Trigonometric Functions	1380Q
6.4 Graphs of the Sine and Cosine Functions	1420Q
6.5 Graphs of the Tangent, Cotangent, Cosecant, and Secant Functions	1510Q
6.6 Phase Shift; Sinusoidal Curve Fitting	1420Q

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### **7 Analytic Trigonometry**

7.1	The Inverse Sine, Cosine, and Tangent Functions	1570Q
7.2	The Inverse Trigonometric Functions (Continued)	1510Q
7.3	Trigonometric Identities	1480Q
7.4	Sum and Difference Formulas	1480Q
7.5	Double-angle and Half-angle Formulas	1480Q
7.6	Product-to-Sum and Sum-to-Product Formulas	1450Q
7.7	Trigonometric Equations (I)	1560Q
7.8	Trigonometric Identities (II)	1560Q

### **8 Applications of Trigonometric Functions**

8.1	Right Triangle Trigonometry; Applications	1380Q
8.2	The Law of Sines	1300Q
8.3	The Law of Cosines	1300Q
8.4	Area of a Triangle	1360Q
8.5	Simple Harmonic Motion; Damped Motion; Combining Waves	1460Q

### **9 Polar Coordinates; Vectors**

9.1	Polar Coordinates	1370Q
9.2	Polar Equations and Graphs	1400Q
9.3	The Complex Plane; De Moivre's Theorem	1370Q
9.4	Vectors	1450Q
9.5	The Dot Product	1490Q
9.6	Vectors in Space	1490Q
9.7	The Cross Product	1150Q

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### **10 Analytic Geometry**

10.1	Conics	NMQ
10.2	The Parabola	1350Q
10.3	The Ellipse	1400Q
10.4	The Hyperbola	1400Q
10.5	Rotation of Axes; General Form of a Conic	HMC
10.6	Polar Equations of Conics	1440Q
10.7	Plane Curves and Parametric Equations	HMC

### **11 Systems of Equations and Inequalities**

11.1	Systems of Linear Equations: Substitution and Elimination	990Q
11.2	Systems of Linear Equations: Matrices	1100Q
11.3	Systems of Linear Equations: Determinants	1100Q
11.4	Matrix Algebra	1000Q
11.5	Partial Fraction Decomposition	1300Q
11.6	Systems of Nonlinear Equations	1220Q
11.7	Systems of Inequalities	1220Q
11.8	Linear Programming	1300Q

### **12 Sequences; Induction; the Binomial Theorem**

12.1	Sequences	1250Q
12.2	Arithmetic Sequences	1250Q
12.3	Geometric Sequences; Geometric Series	1250Q
12.4	Mathematical Induction	NMQ
12.5	The Binomial Theorem	1290Q

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**13 Counting and Probability**

13.1 Counting	750Q
13.2 Permutations and Combinations	840Q
13.3 Probability	HMC

**14 A Preview of Calculus: The Limit, Derivative, and**

14.1 Finding Limits Using Tables and Graphs	HMC
14.2 Algebra Techniques for Finding Limits	HMC
14.3 One-sided Limits; Continuous Functions	HMC
14.4 The Tangent Problem; The Derivative	HMC
14.5 The Area Problem; The Integral	HMC