

Precalculus Mathematics - SM005 - Fall 2010

Textbook: **Precalculus: A Prelude to Calculus** by Sheldon Axler (Wiley, 2009)

Homework is on WileyPLUS:

SM005 section 3001	http://edugen.wiley.com/edugen/class/cls178193/
SM005 section 5001	http://edugen.wiley.com/edugen/class/cls187759/
SM005 section 6001	http://edugen.wiley.com/edugen/class/cls187760/
SM005 section 1001	http://edugen.wiley.com/edugen/class/cls187767/
SM005 section 2001	http://edugen.wiley.com/edugen/class/cls187768/

Section	Topic
0.1	Intro and Real Number Line
0.2	Algebra of Reals
0.3	Inequalities
1.1	Functions
1.2	Coordinate Planes
1.3	Function Transformations
1.4	Composition of Functions
1.5	Inverse Functions
1.6	Graphing Inverse Functions
Review	
Test 1	Chapters 0 and 1
2.1	Linear Functions and Lines
2.2	Quadratic Functions and Parabolas
2.3	Integer Exponents
2.4	Polynomials
2.5	Rational Functions

Review	
Test 2	Chapter 2
3.1	Rational and Real Exponents
3.2	Logarithms
3.3	Algebra of Logs
3.4	Exponential Growth
3.5	More Apps of Logs and Exps
Review	
Test 3	Chapter 3
4.1	Distance, Length and Circles
4.2	Areas of Simple Regions
4.3	e and Natural Logs
4.4	Approximations w/ e and ln
4.5	Exponential Growth Revisited
Review	
Test 4	Chapter 4
5.1	The Unit Circle
5.2	Radians
5.3	Cosine and Sine
5.4	More Trig Functions
5.5	Right Triangles
5.6	Trig Identities
5.7	Inverse Trig Functions
5.8	Inverse Trig Identities
Review	
Test 5	Chapter 5
6.1	Using Trig to Compute Area
6.2	Law of Sines and Law of Cosines
6.3	Double Angle and Half-Angle Formulas
6.4	Addition and Subtraction Formulas
6.5	Amplitude, Period and Phase Shift
Review	
Test 6	Chapter 6
Review	
Review	
Review	

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