

MTH U121 Precalculus		
BOOK: Sullivan and Sullivan: PRECALCULUS Enhanced with graphing utilities		
Sections	Assignments	
2.1 Functions	Page 97: 47, 48	reading a graph
	Page 97: 49, 51, 53, 57	reading a graph
	Page 99: 79, 81, 83	word/graph connection
	Page 96: 15	algebraic function practice
	Page 100: 91, 93, 85	understanding a word problem
2.2 Linear Funct. & Models 1.6 Lines	Page 108: 9	Straight line depreciation
	Page 109: 11	Cost function
	Page 111: 31, 33	Direct Variation
	Page 73: 89, 90, 91, 93, 95	Linear Word Problems
	Page 71: 7, 13, 59, 65 Page 72: 27, 85, 87	standard linear problems Read a linear graph and get the equation
2.3 Properties of Functions Average Rate of Change	Page 122: 1,3,5,7,9,11,15,17,21	Identify properties of a graph
	Page 123: 29, 33	Algebraic manipulation/Difference Quot.
	Page 124: 67, 69, 70	Word problems/plugging in
	Page 124: 71, 73 (a-h)	Word prob./Interpret Ave. rate of change
2.4 Library of Functions; Piecewise defined functions	Page 132: 15	graph a piecewise defined function
	Page 133: 31	read graph of piecewise defined
	Page 133: 35, 37, 39, 41	word problems for piecewise defined
2.5 Graphing Techniques: Transformations	Page 145: 17, 19, 21, 23	Transforms given in words
	Page 145: 25	Multistep transform
	Page 146: 63, 67, 71	Transform piecewise defined func.
	Page 145: 1-12 (odd)	match graph to formula*
2.6 Composite Functions	Page 155: 1, 7	Sum/Difference/Product/Quotient
	Page 155: 13, 35, 37	Composite function
	Page 157: 65, 67, 69	Word Problems (composite function)
3.1 Quadratic Functions and Mo 1.4 Solving Equations (quadrati A.6 Completing the square	Page 190: 17, 23	Graph using complete square/transf.
	Page 1036: 35, 37, 39	solve by Completing the square
	Page 190: 25, 33, 35	Graph and get usual points
	Page 190: 43, 35	get equation from the graph (Trans.)
	Page 191: 65,67, 69,70,71	Word Problem/Optimization
	Page 44: 51, 59, 47, 49, 57 Page 44: 31, 33, 35, 41, 45	use Quadratic Formula Factoring quadratics
3.3 Polynomial Functions and Mo 3.7 Real Zeros of a Polynomial f 3.8 Complex Zeros; Fund. Thm 1.4 Solving equations A.3 Polynomials A.7 Complex Numbers A.6 Quadratic Formula	Page 1013: 65, 55	Two Step Factoring: factor out a power
	Page 1013: 63, 73	Two Step Factoring: substitute first
	Page 1045: 45, 55, 57	Complex roots via quadratic formula
	Page 211: 65-68	Graph -> roots -> polynomial expression
	Page 211: 11-18,	zeros -> polynomial expression
	Page 211: 31-54 Page 1045: 5, 11, 19, 25	polynomial expr. -> roots and properties Complex number manipulation
4.6 Compound Interest	Page 335: 1, 3, 5	Compounding
	Page 335: 25	compare two compoundings
	Page 336: 11, 15	Find present value
	Page 298: 43, 45, 47	solve for x/recognizing "power"
4.2 Exponential Functions	Page 297: 1a, 1c, 1d, 3d	plug in on calculator
	Page 297: 11-18	match function to graph
	Page 298: 19, 21,	use transformation to graph
	Page 298: 37, 41	read graph -> get function

4.6 Compound Interest	Page 297: 7	plug in on calculator
4.2 Exponential Functions	Page 298: 29, 31, 33, 35	use transformations to graph
	Page 336: 7,9, 17	compounding continuously
	Page 298: 55	solve exponential
4.6 Compound Interest	Page 310: 11	use LN function
4.3 Logarithmic Functions	Page 310: 23, 24	use exponential function
4.1 Inverse Functions	Page 310: 47, 49	use calculator
A.9 nth roots	Page 321: 29, 31, 35	algebraic properties of LN
4.4 Properties of Logarithms	Page 327: 25, 19, 21, 29	solve for x
4.5 Logarithmic & Exponential Ec	Page 336: 31, 33, 23, 29, 35	Word problems/solving using LN
4.7 Growth and Decay	Page 347: 1, 5, 7, 3, 11	Word problems
	Page 347: 13, 15	Word problems (law of cooling)
	Page 348: 21, 23	Word problems (logistic)
5.1 Angles and Their Measure	Page 379: 67, 69, 75	convert degrees/radians
	Page 379: 37, 39, 41	arclength formula
	Page 380: 81, 91, 92, 102	word problems
5.2 Trig. Functions; Unit Circle A	Page 536: 1, 7	get trig functions from triangle
7.1 Right Triangle Trigonometry	Page 536: 21, 31	get sides from angles (use calculator)
	Page 537: 43, 47, 51, 52	Word problems
	Page 395: 1, 3	get trig functions from point on unit circle
	Page 396: 73	get trig functions from a point
	Page 397: 105, 111	Word problems
5.3 Properties of the Trig.Functio	Page 411: 1, 17	
	Page 411: 25, 27	given value of sin, cosine get other trig
	Page 412: 49, 59	use even-odd properties
	Page 413: 109	word problem
5.4 Graphs of Sine and Cosine Fu	Page 426: 12, 69, 71	identify from graph
	Page 427: 39, 43, 47, 49, 51	match to graph
	Page 427: 16, 17, 21, 23, 26, 27	graph using transformations
5.5 Graphs of Other Trig. Func.	Page 435: 19, 25, 31	graph using transformations
5.6 Phase Shifts; Sinusoidal Curv	Page 446: 1, 5	get 4 values from equation
	Page 446: 13, 15	given 3 values (B=0) get equation
	Page 447: 19, 21, 23, 25, 27	Word Problems
10.1 Sys of Lin. Eqs: Two Eq.	Page 748: 3	check/verify a given solution
	Page 749: 11, 15	find solution (use any method)
	Page 749: 17	find solution (inconsistent)
	Page 749: 21	find solution (infinitely many)
	Page 749: 39, 43, 45,46,53	Word Problems
10.2 Sys of Lin Eqs: Three Eq.	Page 755: 5, 13	find point solution (any method)
10.3 Matrices	Page 772: 45, 53, 57	find point solution (use matrices)
	Page 772: 13	practice a row operation
	Page 772: 33, 35, 41	find solution using matrices
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