

MTH U121 Precalculus

Book: Precalculus Enhanced with Graphing Utilities, Sullivan and Sullivan, 4th Ed

Most of the Homework is to be done ON-LINE. Go to www.coursecompass.com

You will need an ACCESS CODE which came with your book.

You will need the Course ID which will be supplied by your instructor

Order	Sections	Assignments	Description
1	2.1 Functions	pg 68: 39, 45	Plug into a function
2		pg 68: 75, 76	Simplify Difference Quotient
3		pg 68: 51, 55, 57, 47	Find Domains
4		pg 68: 61, 65	Algebraically combine functions
5	2.2 Graph of a Function	pg 79: 37, 39, 40, 41, 42	Graph/Word Connection (NOT ALL ONLINE_
6		pg 77: 9, 23, 25, 11, 13	Reading a Graph
7		pg 78: 29, ALSO 32a	Word Problem
8	2.3 Properties of Functions	pg 89: 15, 21, 27, 17, 19	Reading Graph to Find Properties
9		pg 91: 65, 68	Word Problem (find max)
10		pg 92: 73, 75	Difference Quotient - More Algebra/Secant Line
11	2.4 Lines	pg 102: 11, 13, 15, 17	Graph a Linear Function
12	1.4 Lines	pg 40: 9, 33, 35, 103	Read a Linear Graph
13		pg 102: 31, 33, 35; pg 42: 105, 113	Word Problems
14		pg 103: 45, 39	Word Prob. Direct Var. Str-line Deprec.
15	2.5 Library of Functions	pg 115: 9, 11	Match Library Functions
16	2.5 Piecewise Defined Functions	pg 115: 25, 29, 31, 35, 41	Piecewise Defined Functions
17		pg 115: 45, 47, 53	Word Prob. Piecewise Defined Func.
18	2.6 Transformations of Graphs	pg 127: 17,19,21,35,41, 11,25,53	Transformations of Graphs
19		pg 128: 65, 67	(Not available On-Line)
20	3.1 Quadratic Functions	electronic only	Solve by Factoring
21		electronic only	Solve by Quadratic Formula
22		pg 164: 11, 35, 41	Find Pts, Interval, Symmetry - Graph
23		pg 165: 53, 55, 57	Get equation from graph (find 2 pts)
24		pg 165: 27, 31 (and 3 electronic only)	Transforming Quadratics (Complete the Square)
25		pg 165: 71, 73, 75, 77	Word Problems (max revenue etc)
26	3.2 Polynomial Functions	pg 183: 45, 47, 59, 79, 91, 82	Analyzing Polynomials
27		pg 183: 37, 43	Get Polynomials from Zeros (w' mult.)
28		pg 183: 23, 25, 27, 31	Transformation of Graphs
29	A.6 Complex Numbers	pg 1008: 13, 19, 27	Complex Number Practice (Not all On-LINE)
30	3.7 Zeros of Polynomials (Complex)	pg 237: 7, 9, 15	Use Conjugate Pair Theorem - find other roots
31		pg 237: 17, 19	Find Polynomial with Specified Zeros
32		pg 237: 23, 31, 35	Find Complex Zeros of a Polynomial
33		4.7 Compound Interest (INTRODUCT	pg 322: 3, 7, 27
34	4.3 Exponential Functions	pg 283: 11, 17	Exponential Plug-In using calculator
35		pg 283: 31, 37, 39, 47	Graphs of Exponentials (use Transformation)
36		pg 284: 71, 73	Get Exponential Function from Graph
37		pg 284: 53, 55, 57, 61, 65	Solve Exponential Equations (without Logs)
38	4.1 Composite Functions	pg 254: 7, 9, 11, 12	Form Composite Function
39		pg 254: 65, 67	Word Problems
40	4.2 Inverse Functions	pg 269: 37, 43, 57, 53	Inverses of Functions given by formula
41		pg 270: 81	Word Problem
42	4.4 Logarithmic Functions	pg 297: 59, 60	Evaluate Log expression (using a calculator)
43		pg 297: 35, 36, 41	Evaluate Log expression (without calculator)
44		pg 296: 9, 11, 15, 21, 27	Convert Expon Expression to Log (vice-versa)
45		pg 298: 93, 103, 94, 104	Solve Expressions (Log and Expon)

46	4.5 Properties of Logs	pg 308: 9, 29, 10, 30	Calculate Value (without calculator)
47		pg 308: 65, 66	Evaluate Using CHANGE OF BASE (and calc)
48		pg 308: 17, 19, 18, 20	Find Exact Value (multi-step) (without calc.)
49	4.6 Log and Expon Equations	pg 313: 21, 25, 27, 29, 31, 33, 34	Solve Exponential Equations
50		pg 314: 65, 67	Word Problems
51		pg 313: 5, 7, 13, 15	Solve Logarithmic Equations
52	4.7 Compound Interest	pg 322: 3, 7, 11, 27	Plugging into Formula
53		pg 322: 13, 15, 17, 19	Find Present Value of money
54		pg 322: 31, 35	Find Time to Increase money
55		pg 322: 25, 26	Find Interest rate
		??? Power expressions ???	
56	4.8 Exponential Growth	pg 334: 1, 5, 7, 8	Find Equation for Uninhibited Growth
57		pg 334: 3, 9, 17	Find Equation for Law of Decay
58		pg 335: 13, 14	Use Newton's Law of Cooling
59		pg 336: 21, 23	Use Logistic Models
60	7.1 Right Triangle Trigonometry	pg 527: 9, 11, 29, 31, 39, 41	Calculate Sides and Trig functions of Triangles
61		pg 527: 19, 23, 25	Complementary Angles
62		pg 528: 43,47,49,53,55, 57,59,65,67	Word Problems
63	5.1 Angles and their Measures	pg 367: 15, 19, 16, 20	Draw Angles
64		pg 367: 23, 29, 30, 43, 49, 61	Convert Radians/Degrees
65		pg 367: 71, 75, 77, 78	Arclength
66		pg 367: 79, 81, 83	Area of a Sector of a Circle
67		pg 368: 101, 102, 91	Word Problems for Arclength
68	5.2 Unit Circle Approach to Trig.	pg 384: 13, 14	Get Value of Trig Func from Point on Circle
69		pg 385: 83, 85	Get Value of Trig Function from a Point
70		pg 385: 67, 75, 68, 77	Use Calculator to get values for Trig Functions
71		pg 386: 121, 123	Word Problems
72	5.3 Properties of Trig. Functions	pg 384: 33, 39, 53; pg 400: 13, 11, 43	Calculate Exact Values of Trig Functions
73		pg 400: 59, 61, 67, 69, 107	Use Even-odd properties
74		pg 401: 119	Word Problem
75	5.4 Graphs of Sines	pg 415: 25, 27	Transformation of Graph of Sine Functions
76		pg 415: 37, 41	Get Amplitude and Period of Sinusoidal Funct.
77		pg 416: 61, 67, 69, 91	Graph Sinusoidal Functions
78		pg 416: 57, 73, 83, 85	Find Equation of Sinusoidal function
79	5.5 Graphs of Trig Functions	pg 424: 11, 15, 23, 25, 27, 29, 33, 45	Graph Transformation of Other Trig Functions
80	5.6 Sinusoidal Curve Fitting	pg 435: 15, 17	Get Sinsoidal Equation from Parameters
81		Pg 435: 3, 7, 9, 13	Graph Sinusoidal Function/Graph from Data
82		Pg 435: 21, 25, 27	Get Sinusoidal Function/Graph from Data
83	10.1 Systems of Equations	pg 738: 9, 17, 19, 23, 35, 37, 39	Point Solutions only: 2 x 2
84		pg 739: 55, 57, 59, 61, 67	Word Problems - 2 variables
85		pg 738: 29, 25	Not point solutions
86	10.2 Systems of Equations	pg 738: 43, 41, 42, 44	Point Solutions: 3x3 cases
87		pg 756: 77, 79	Word Problems - 3 variables
88		pg 754: 7, 17, 21,c25, 27, 29, 31	Matrices - Preliminaries
89		pg 654: 37, 39, 61, 69	Matrices - Point Solutions