

Chapter 1: Functions and Mathematical Models

Day	Section	Topic	Problems
1	1-1	Functions: Algebraically, Numerically, Graphically, and Verbally	Read Lesson; 1, (2)
2	1-1	Functions: Algebraically, Numerically, Graphically, and Verbally	3, 4abd, 5, (6)
3	1-2	Kinds of Functions	RL; 1-14, (15-18)
4	1-2	Kinds of Functions	19-38, (39-42)
5	1-3	Dilation and Translation of Function Graphs	RL; Q1-Q10; 1-4, (5-6)
6	1-3	Dilation and Translation of Function Graphs	7-14, (15-20)
7	1-4	Composition of Functions	RL; Q1-Q10; 2, 6, (1, 5)
8	1-4	Composition of Functions	7-8, 11, (10, 13-15)
9	1-5	Inverse of a Function	RL; Q1-Q10; 1, 5-19 odd (2, 3)
10	1-5	Inverse of a Function	21, 23, 27, 29 (25, 26, 28, 30)
11	1-6	Reflections, Absolute Values, and Other Transformations	RL; Q1-Q10; 1, 2, (3, 4)
12	1-6	Reflections, Absolute Values, and Other Transformations	5, 8, (11, 13)
13	1-7	Precalculus Journal	1
14	1-8	Chapter Review and Test	R1-R6
15	1-8	Chapter Review and Test	T1-T28
16		TEST	Section 1-8: (C1) Section 2-1: 1-4

Chapter 2: Periodic Functions and Right Triangle Problems

Day	Section	Topic	Problems
17	2-2	Measurement of Rotation	RL; Q1-Q10; 1-20
18	2-2	Measurement of Rotation	21-24, 27-29, (26, 30)
19	2-3	Sine and Cosine Functions	RL; Q1-Q10; 1-4, 7-13 odd, (6-14 even)
20	2-3	Sine and Cosine Functions	15-19, 21-22, (20, 23)
21	2-4	Values of the Six Trigonometric Functions	RL; Q1-Q10; 1-14
22	2-4	Values of the Six Trigonometric Functions	15-19, 21-33 odd, 43 (36-37, 40-41, 44)
23	2-5	Inverse Trigonometric Functions and Triangle Problems	RL; Q1-Q10; 1-5, 9-10, 12, (7, 11)
24	2-5	Inverse Trigonometric Functions and Triangle Problems	13-17, 23 (18-20, 22)
25	2-6	Chapter Review and Test	R1-R5, Journal
26	2-6	Chapter Review and Test	T1-T22
27		Chapter Test	Section 2-6: (C1, C3) Section 3-1: 1-9

Chapter 3: Applications of Trigonometric and Circular Functions

Day	Section	Topic	Problems
28	3-1	Sinusoids: Amplitude, Period, and Cycles	Exploration 3-1a Exploration 3-1b
29	3-2	General Sinusoidal Graphs	RL; Q1-Q10; 1, 3, (2, 4)
30	3-2	General Sinusoidal Graphs	5-7, 9-11, (8, 12-14)
31	3-2	General Sinusoidal Graphs	15-18, 21, 23, (24-25, 27)
32	3-3	Graphs of Tangent, Cotangent, Secant, and Cosecant Functions	RL; Q1-Q10; 1-6, (7-11, 15)
33	3-4	Radian Measure of Angles	RL; Q1-Q10; 1-43 odd, 49-50, (45-48)
34	3-5	Circular Functions	RL; Q1-Q10; 1-27 odd, 33-36, (47, 48abc)
35	3-6	Inverse Circular Relations: Given y , Find x	RL; Q1-Q10; 1-3, (4)
36*	3-6	Inverse Circular Relations: Given y , Find x	5-8, 11, (9-10, 12-13)
37	3-7	Sinusoidal Functions as Mathematical Models	RL; Q1-Q10; 1, (2)
38	3-7	Sinusoidal Functions as Mathematical Models	3, 5, (4)
39	3-7	Sinusoidal Functions as Mathematical Models	6, 11 (10)
40	3-9	Chapter Review and Test	R1-R7, Journal
41	3-9	Chapter Review and Test	T1-T7, T10-T18
42		TEST	Section 3-9: (C1) Section 4-1: 1-6

Chapter 4: Trigonometric Function Properties, Identities, and Parametric Functions

Day	Section	Topic	Problems
43	4-2	Pythagorean, Reciprocal, and Quotient Properties	RL; Q1-Q10; 1-9 odd, (11, 13)
44	4-2	Pythagorean, Reciprocal, and Quotient Properties	2-12 even, (14)
45	4-3	Identities and Algebraic Transformations of Expressions	RL; Q1-Q10; 1-12 (Regular: skip any 4)
46	4-3	Identities and Algebraic Transformations of Expressions	13-26 (Regular: skip any 6)
47	4-3	Identities and Algebraic Transformations of Expressions	27-42 (Regular: skip any 6)
48	4-3	Identities and Algebraic Transformations of Expressions	43-54 (Regular: skip any 4)
49	4-4	Arcsine, Arctangent, Arccosine, and Trigonometric Equations	(RL; Q1-Q10; 2-20 even)
50	4-4	Arcsine, Arctangent, Arccosine, and Trigonometric Equations	(21-27 odd)
51	4-4	Arcsine, Arctangent, Arccosine, and Trigonometric Equations	(22-28 even, 33-36)
52	4-6	Inverse Trigonometric Relation Graphs	RL; Q1-Q10; Day 52 HW handout, (5-15 odd)
53	4-6	Inverse Trigonometric Relation Graphs	Day 53 HW handout, (17-21 odd)
54	4-7	Chapter Review and Test	R1-R4, R6
55	4-7	Chapter Review and Test	T1-T17
56		TEST	Section 4-7: (C2) Section 5-1: 1-8

Chapter 5: Properties of Combined Sinusoids

Day	Section	Topic	Problems
57	5-2	Composite Argument and Linear Combination Properties	RL; Q1-Q10; 1-13 odd, (15)
58	5-2	Composite Argument and Linear Combination Properties	17-18, 19-25 odd, (27, 29-30)
59	5-3	Other Composite Argument Properties	RL; Q1-Q10; 1-9 odd, 11-15, (10, 16-20)
60	5-3	Other Composite Argument Properties	21-22, (23-26)
61	5-3	Other Composite Argument Properties	28-32 even, (33-38)
62	5-6	Double and Half Argument Properties	RL; Q1-Q10; 1-6
63	5-6	Double and Half Argument Properties	7-10, 21-24, (25-26)
64	5-6	Double and Half Argument Properties	33-43 odd, (34, 38, 42)
65	5-7	Chapter Review and Test	R1-R3, R6
66	5-7	Chapter Review and Test	T1-T3, T6-T7, T9-T12, T17-T18
67		TEST	Section 5-7: (C1) Section 6-1: 1-6

Chapter 6: Triangle Trigonometry

Day	Section	Topic	Problems
68	6-2	Oblique Triangles: Law of Cosines	RL; Q1-Q10; 1-3, (4)
69	6-2	Oblique Triangles: Law of Cosines	5-12, 14, (15)
70	6-3	Area of a Triangle	RL; Q1-Q10; 1-7, 10, (8-9, 14)
71	6-4	Oblique Triangles: Law of Sines	RL; Q1-Q10; 1-6, (7-8)
72	6-4	Oblique Triangles: Law of Sines	9-10, (11, 14)
73	6-5	The Ambiguous Case	RL; Q1-Q10; 1-6, (7-8)
74	6-5	The Ambiguous Case	9-11, (12-14)
75	6-7	Real-World Triangle Problems	RL; Q1-Q10; 1-5 odd, (7)
76	6-7	Real-World Triangle Problems	2-8 even, (19)
77	6-8	Chapter Review and Test	R1-R5, R7
78	6-8	Chapter Review and Test	T1-T7, T10-T19
79		TEST	Section 6-8: (C2) Section 7-1: 1-4

Chapter 7: Properties of Elementary Functions

Day	Section	Topic	Problems
80	7-2	Identifying Functions from Graphical Patterns	RL; Q1-Q10; 1-8, (9-10)
81	7-2	Identifying Functions from Graphical Patterns (TWO DAYS)	12-20 even, (11-19 odd)
82	7-3	Identifying Functions from Numerical Patterns	RL; Q1-Q10; 1-12
83	7-3	Identifying Functions from Numerical Patterns	13-25, (26-28)
84	7-4	Properties of Logarithms	RL; Q1-Q10; 1-26
85	7-4	Properties of Logarithms	27-44, (45-47)
86	7-5	Logarithms: Equations and Other Bases	RL; Q1-Q10; 1-6, 8-34 even, (7-33 odd)
87	7-5	Logarithms: Equations and Other Bases	35-44, (45-46)
88	7-7	Logistic Functions for Restrained Growth	RL; Q1-Q10; 1, (2)
89	7-7	Logistic Functions for Restrained Growth	3, (5-6) [Skip 5f]
90	7-8	Chapter Review and Test	R1-R5, R7
91	7-8	Chapter Review and Test	T1-T22, T28, (T24-T27)
92		TEST	Section 9-1: 1-13

Chapter 9: Probability, and Functions of a Random Variable

Day	Section	Topic	Problems
93	9-2	Words Associated with Probability	RL; Q1-Q10; 1, 2
94	9-3	Two Counting Principles	RL; Q1-Q10; 1-5, (6)
95	9-3	Two Counting Principles	7-14, (15-16)
96	9-4	Probabilities of Various Permutations	RL; Q1-Q10; 1-7, (8)
97	9-4	Probabilities of Various Permutations	9-14 (15-16)
98	9-5	Probabilities of Various Combinations	RL; Q1-Q10; 1-21 odd, (23-29 odd)
99	9-5	Probabilities of Various Combinations	2-20 even, (22-30 even)
100	9-6	Properties of Probability	RL; Q1-Q10; 1-4, (5-6)
101	9-6	Properties of Probability	7-10, (11, 13)
102	9-7	Functions of a Random Variable	RL; Q1-Q10; 1, 3, (5)
103	9-7	Functions of a Random Variable	2-6 even, (9)
104	9-8	Mathematical Expectation	RL; Q1-Q10; 1-5 odd, (7)
105	9-8	Mathematical Expectation	2-6 even, (8)
106	9-9	Chapter Review and Test	R0-R8
107	9-9	Chapter Review and Test	T1-T28
108	9-10	TEST	

Chapter 13: Polar Coordinates, Complex Numbers, and Moving Objects

Day	Section	Topic	Problems
109	13-1	Introduction to Polar Coordinates	1-6
110	13-2	Polar Equations of Conics and Other Curves	Explorations 13-2a, 13-2b
111	13-2	Polar Equations of Conics and Other Curves	RL; Q1-Q10; 1-7 odd, (2-6 even, 8-10)
112	13-2	Polar Equations of Conics and Other Curves	11-17 odd, (16-20 even)
113	13-3	Intersections of Polar Curves	RL; Q1-Q10; Explor. 13-3a; Page 612: 1, (2)
114	13-3	Intersections of Polar Curves	3-7 odd, (4-8 even)
115	13-4	Complex Numbers in Polar Form	RL; Q1-Q10; 1-12
116	13-4	Complex Numbers in Polar Form	13-22
117	13-4	Complex Numbers in Polar Form	23-26
118	13-4	Complex Numbers in Polar Form	27-36
119	13-6	Chapter Review and Test	R1-R4
120	13-6	Chapter Review and Test	T1-T14
121		TEST	Section 14-1: 1-10

Chapter 14: Sequences and Series

Day	Section	Topic	Problems
122	14-2	Arithmetic, Geometric, and Other Sequences	RL; Q1-Q10; 1-8, (9-12)
123	14-2	Arithmetic, Geometric, and Other Sequences	13-17, (18, 20, 21)
124	14-3	Series and Partial Sums	RL; Q1-Q10; 1, 2, 11-14, (5)
125	14-3	Series and Partial Sums	15-21 odd, (16-22 even)
126	14-3	Series and Partial Sums	23-35 odd, (24-36 even)
127	14-3	Series and Partial Sums	37-51 odd, (38-52 even)
128	14-4	Chapter Review and Test	R1-R3
129	14-4	Chapter Review and Test	Practice Test
130		TEST	

Chapter 15: Polynomial and Rational Functions, Limits, and Derivatives

Day	Section	Topic	Problems
131	15-1	Review of Polynomial Functions	1-11
132	15-2	Graphs and Zeros of Polynomial Functions	RL; Q1-Q10; 1-17 odd, (2-18 even)
133	15-2	Graphs and Zeros of Polynomial Functions	19-31 odd, (20-32 even)
134	15-3	Fitting Polynomial Functions to Data	RL; Q1-Q10; 1-3, (4)
135	15-3	Fitting Polynomial Functions to Data	5, 7, (6, 8, 11)
136	15-4	Rational Functions: Discontinuities, Limits and Partial Fractions (TWO DAYS)	RL; Q1-Q10; 1-9 odd, (2-10 even)
137	15-4	Rational Functions: Discontinuities, Limits and Partial Fractions	11-23 odd, (12-24 even)
138	15-5	Instantaneous Rates of Change of a Function	RL; Q1-Q10; 1, (2)
139	15-5	Instantaneous Rates of Change of a Function	3, (4-6)
140	15-6	Chapter Review and Test	Exploration 15-6a
141	15-6	Chapter Review and Test	Exploration 15-6b
142	15-6	Chapter Review and Test	R0-R5
143	15-6	Chapter Review and Test	T1-T21
144		TEST	