





Applications of Math 12 Homework Outline

Each days' assigned homework must be completed before the next class. Lessons are cumulative and build upon the previous days work so it's imperative that you stay on top of your work. If you miss a class for whatever reason, it is a guarantee I have taught one lesson on a short day and 2 lessons on a long day. It is your responsibility to learn the material from the workbook and do the homework assigned. Check off the appropriate column when you have completed the assigned homework.

PROBABILITY				
				
Lesson #	Title	Workbook	Worksheet	Date (√)
1	Review and Preview	Pg 5 # 1-10	Binomial Probabilities	
2	Fundamental Counting Principle	Pg 14 # 1-12	Same Title	
3	Probability Terminology and Notation	Pg 20 # 1-4, 6-9	Same Title	
4	Mutually Exclusive Events	Pg 29 # 1-7, 9-11	Venn Diagrams	
5	Independent and Dependent Events	Pg 36 # 1-27	Same Title	
6	Pathways and Probability	Pg 47 # 1-9	No	
	Practice Test			
TEST: PROBABILITY				
STATISTICS				
				
1	Distributions	Pg 64 # 1-7	No	
2	Mean and Standard Deviation	Pg 55 # 1-7 Pg 67 # 8, 10-13	No	
3	Normal Distribution	None	Same Title	
4	Standard Normal Distribution	Pg 80 # 2-10, 13,14	No	
5	Using a Graphing Calculator to Solve Normal Dist. Problems	Pg 99 # 1-3, 6-8	invNorm	

6	Problems Involving the Normal Distribution	Pg 89 # 1-10	No	
7	Confidence Intervals and the Normal Approximation to the Binomial Distribution	Pg 108 # 1-7, 9, 10.	No	
	Practice Test			

TEST: STATISTICS

MATRICES



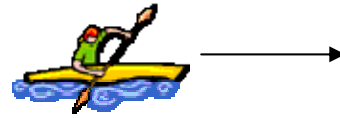
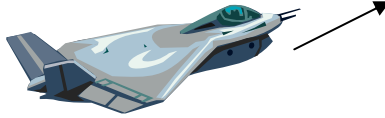
$$\begin{bmatrix} 3 & 7 & 12 \\ -4 & 1 & -2 \\ 5 & 6 & 8 \end{bmatrix}$$

1	Review and Preview	Pg 117 # 5-18	No	
2	Scalar Multiplication, Addition and Subtraction of Matrices	Pg 126 # 1-5, 7-19	No	
3	Multiplication and Operations of Matrices Part I	Pg 137 # 1-16	Multiplying Matrices: Applied Problems	
4	Multiplication and Operations of Matrices Part II	Pg 146 # 1-10	No	
5	Network Matrices	Pg 156 # 1-6	Same Title	
6	Transition Probability Matrices	Pg 163 # 1 – 7	Same Title	
	Practice Test			

TEST: MATRICES

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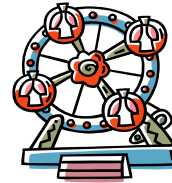
VECTORS



1	Review and Preview Part I	Pg 171 # 1-12	No	
2	Review and Preview Part II	Pg 180 # 1-12	No	
3	Vectors, Bearings and Headings	Pg 190 # 1-20	No	
4	Multiplying Vectors by a Scalar	Pg 202 # 1-7	No	
5	Triangle Method of Solving Vectors	Pg 208 # 1-14	No	
6	Parallelogram Method of Solving Vectors	Pg 218 # 1-12	No	
7	Three Dimensional Vector Applications	Pg 231 # 1 – 16	3D Vectors	
	Practice Test			

TEST: VECTORS

SINUSOIDAL DATA



1	Review and Preview	Pg 242 # 1-4	No	
2	Amplitude and Period	Pg 250 # 1-9	No	
3	Horizontal and Vertical Shift	Pg 262 # 1-5, 7	Characteristic of Sine Curve	
4	Fitting Sine Curves to Data	None	Same Title	
5	Sinusoidal Application Problems	Pg 273 # 1, 2, 4, 5, 7-12	No	
	Practice Test			

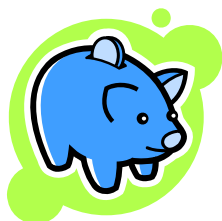
TEST: SINUSOIDAL DATA

FRACTALS



Lesson #	Title	Workbook	Worksheet	Date (√)
1	Review and Preview	Pg 286 # 1-7	Introduction to Sequences	
2	Modelling Using Sequences	None	Same Title	
3	Introduction to Fractals	None	Gov't Exam Problems: Fractals	
	Quiz			

FINANCE



1	Simple and Compound Interest	Pg. 313 # 1-7	No	
2	Calculating Investments and Loans	Pg. 322 # 1, 2a, 3-15	Investments Review Using the TVM SOLVER	
3	Mortgages	Pg. 330 # 1-8, 11, 12.	No	
4	Spreadsheet Review and Financial Spreadsheets	Pg. 340 # 1-3, 4a, 5-8, 9a, 10-13	No	
5	Buying, Leasing and Renting	Pg 352 #1-6, 8-11	No	
6	Rates of Return and Financial Problems	Pg 362 # 1-8, 10, 12-14	Same Title	
	Practice Test			

TEST: FINANCE

DESIGN



1	Basic Review: Perimeter, Area and Volume	Pg 372 # 1-14.	No	
2	Practice Problems	No	Practice Gov't Exam Problems	
3	Practice Problems	No	Practice Gov't Exam Problems 2	
TEST: DESIGN (No Practice Test, complete all homework)				

FINAL EXAM REVIEW