

## Math 201 TR or MW Decision Mathematics

**Text:** *Finite Mathematics*, Rolf, 6th Edition (2005) OR 7<sup>th</sup> Edition (2008)  
**Prerequisites:** Grade of "C" or better in Math 105, Math 107 or equivalent.  
**A graphing calculator is required**

Lesson	Section/Topic	Assignment
1	Introduction 6.1 Sets 6.2 Venn diagrams	both: 1-3, 7, 8, 21, 22, 29, 31-33, 37, 39, 43, 49, 52, 60, 61, 62, 68 both: 1, 3, 5, 8, 9, 12, 16
2	6.2 Venn diagrams  6.3 Counting Principles	both: 19, 20, 23 6 <sup>th</sup> : 24, 26, 27, 31, 33, 34 7 <sup>th</sup> : 26, 28, 29, 33, 35, 36 both: 1, 5, 7, 8, 11, 17-19, 6 <sup>th</sup> : 21, 22, 23, 25, 27, 34, 35, 36, 39, 45, 47, 49, 51, 53, 54, 55 7 <sup>th</sup> : 23, 24, 25, 27, 29, 44, 45, 46, 49, 55, 57, 59, 61, 63, 54, 65
3	6.4 Permutations	both: 17, 19, 21, 23, 25, 26, 29, 30, 32, 33, 36-38, 40, 41, 45, 50, 52, 54, 57 6 <sup>th</sup> : 59, 60 7 <sup>th</sup> : 61, 62
4	6.5 Combinations  6.6 Mixture of Counting	both: 9, 12, 19, 21-23, 25-27, 29, 30, 35 6 <sup>th</sup> : 37, 38, 45, 47, 50, 52, 53, 65, 69, 70, 71, 41, 42 7 <sup>th</sup> : 41, 42, 49, 51, 54, 56, 57, 69, 73, 74, 75, 45, 46 both: 2, 3, 5-7, 10, 11, 13, 14, 16, 17, 20, 21, 23, 25, 26, 29-31
5	7.1 Probability 7.2 Equally likely events	both: 1, 5, 6, 11-13, 19, 21, 22, 23, 25 both: 1-3, 5, 6 6 <sup>th</sup> : 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 19, 20, 23, 24, 28, 30, 31, 33, 34, 35, 37, 38, 42, 43, 45, 46, 48, 50, 54 7 <sup>th</sup> : 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 21, 22, 25, 26, 32, 34, 35, 37, 38, 39, 40, 41, 46, 47, 49, 50, 52, 54, 58
6	7.3 Compound events	both: 5, 6, 9, 11, 12, 16-18, 20, 21, 24-27, 30, 31, 33, 34, 36, 37, 42, 43, 46-49, 52-54, 56(a-c)
7	<b>Review</b>	Ch 6 Review - both: 2, 4-6, 9-13, 15, 18, 19, 21, 22, 24-28, 30-32, 34-36, 38, 40, 42-44, 50 Ch 7 Review - both: 1, 3-6, 8-10, 12, 14, 20, 25, 29-31
8	<b>TEST 1</b>	<b>Sections 6.1 - 6.6, 7.1 - 7.3</b>

9	7.4 Conditional probability 7.5 Independent events	both: 2, 3, 5-10, 17-21, 23, 24, 29, 33-36, 42, 46, 49 both: 6, 10, 11, 13, 15, 18, 19, 21, 25, 28, 33, 36, 40, 43, 51
10	8.1 Frequency distributions 8.2 Central tendency	both: 1, 3, 5, 6, 9, 11-13, 15, 18 both: 1, 4, 9-11, 14, 17, 21-23, 27, 30-33, 35, 36 6 <sup>th</sup> : 39, 41, 42, 43, 45, 46, 47 7 <sup>th</sup> : 47, 49, 50, 51, 53, 54, 55
11	8.3 Dispersion	both: 1, 9, 11, 13-15, 18, 20, 21, 23-25, 27, 28 6 <sup>th</sup> : 29, 30, 36, 37, 38, 39, 40, 41 7 <sup>th</sup> : 31, 32, 40, 41, 42, 43, 44, 45
12	8.4 Random variables 8.5 Expected value	both: 1, 3, 5, 7, 9, 10, 12-16, 18, 20, 21, 24, 25, 27-29, 33, 38, 39 both: 1, 2, 5, 7-9, 15, 16 6 <sup>th</sup> : 22, 23, 24, 26, 29, 33 7 <sup>th</sup> : 24, 25, 26, 28, 31, 35
13	<b>Review</b>	Ch 7 Review - both: 17, 18, 21, 33-36 Ch 8 Review - both: 2-11, 13, 23, 24, 26, 28-30
14	<b>TEST 2</b>	<b>Sections 7.4, 7.5, 8.1 - 8.5</b>
15	8.6 Binomial distribution	both: 21, 27-29, 31, 34, 41, 45, 46 6 <sup>th</sup> : 50, 51, 52, 53, 56, 57, 60, 67, 68 7 <sup>th</sup> : 56, 57, 58, 59, 62, 63, 66, 75, 76
16	8.7 Normal distribution	both: 97-100 6 <sup>th</sup> : 108, 109, 110, 111, 114, 115, 116 7 <sup>th</sup> : 114, 115, 116, 117, 120, 121, 122 Approximating binomial distributions using the normal distribution: 6 <sup>th</sup> : 101, 104, 105, 118, 119, 127, 128 7 <sup>th</sup> : 101, 104, 105, 124, 125, 133, 134
17	2.1 Systems (2 equations)  2.2 Systems (3 variables)	both: 6, 10, 13, 16, 17, 20, 26, 27, 30, 32, 43, 44, 45 6 <sup>th</sup> : 49, 50, 54, 61, 67 7 <sup>th</sup> : 51, 52, 54, 63, 71  both: 13, 14, 18, 19, 22, 26, 27, 30, 32, 36, 37, 38, 55, 57, 62, 63, 64

18	2.3 Gauss-Jordan method	both: 1-8, 10, 13, 15, 16, 21-24, 26, 27, 29, 30 6 <sup>th</sup> : 36, 38, 63, 65, 67, 68, 72 Use your calculator for these: p. 92 - 40, 43, 46, 47; p. 113 - 33, 45, 51, 54 7 <sup>th</sup> : 38, 40, 65, 67, 69, 70, 74 Use your calculator for these: p. 100 - 42, 45, 48, 49; p. 121 - 33, 47, 53, 56
19	<b>Review</b>	Ch 8 Review - both: 14-20, 22 Approximating binomial distributions:18, 19 (There are no typical problems from Sec 8.6 on the review so work Examples 6, 7, 8 in Sec 8.6 without looking at solutions.) Ch 2 Review - both: 7, 9, 11, 13, 15, 37, 39, 41
20	<b>TEST 3</b>	<b>Sections 8.6, 8.7, 2.1 - 2.3</b>
21	2.4 Matrix operations	both: 1 - 4 6 <sup>th</sup> : 5, 6, 7, 9, 10, 11, 17, 18, 19, 20, 23, 24, 25, 28, 29, 31, 34, 36, 37, 40, 43, 46, 47, 50, 52 7 <sup>th</sup> : 11, 12, 13, 15, 16, 17, 23, 24, 25, 26, 29, 30, 31, 34, 35, 41, 44, 46, 47, 50, 53, 56, 57, 60, 62
	2.5 Matrix multiplication	both: 2, 5, 7, 10, 11, 13, 14, 17, 20, 21, 24, 30, 33, 38, 46, 48, 53, 54 6 <sup>th</sup> : 63, 64, 66, 67, 68, 71, 77, 78, 79, 80, 81 7 <sup>th</sup> : 67, 68, 70, 71, 72, 75, 79, 80, 81, 82, 83
22	2.6 Inverse of a matrix	both: 2-4, 6, 9, 14, 17, 20, 28, 29, 32, 45, 47; Use your calculator: 21, 24, 37, 38, 40
23	3.1 Linear inequalities	both: 1, 5, 8, 10, 11, 14, 15, 20, 22, 23, 26 6 <sup>th</sup> : 28, 30, 33 7 <sup>th</sup> : 30, 32, 35
	3.2 Systems of inequalities	both: 1, 3, 6, 9, 12, 13, 16, 18, 20, 22
24	3.2 Systems of inequalities	both: 25, 26, 30, 32, 34, 36
	3.3 Linear programming	both: 1, 2, 4, 5, 8, 11, 14, 17, 20, 23, 26, 28, 31, 36
25	3.3 Linear programming	both: 38, 39, 42, 43, 45, 46, 50, 52, 59, 62
	3.4 Applications	both: 1-3, 6, 10, 13, 14, 16
26	<b>Review</b>	Ch 2 Review - both: 18, 21, 24, 25, 27, 29, 30, 31 Ch 3 Review - both: 1a, 1d, 3, 6, 7, 10, 13, 14, 17, 18, 20, 21, 23

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