

HONORS ANALYSIS

CHAPTER 15

Combinatorics

Assignments

<u>Assignment</u>	<u>Section</u>	<u>Page</u>	<u>Problems</u>
1	15.1	568	1, 3, 11, 13, 15, 16, 19, 21
2	15.2	575	1, 3, 5, 7 - 11, 13 - 16
3	15.2	576	17 - 27, 34
4	15.3	580	1 - 27 odd
5	15.3	580	2 - 28 even
6	15.4	585	1 - 15 odd, 16 - 18
7	Mixed Exercises	587	1 - 23 odd
8	15.5	592	1, 3, 7, 9, 11, 13, 19, 21, 22, 23

Even Answers

Section 15.1

16a. AZ, NM, TX 16b. CA 16c. 42

Section 15.2

8a. 125 8b. 6010. 5040 14. 720 16. 325
18. 4,928,040 20a. 3584 20b. 5416 22. 7,483,500
24. 31,996,800 26a. 5040 26b. 5040 34. 24

Section 15.3

2a. 17,160 2b. 190 4a. 1,860,480 4b. 15,504 6a. 246b. 1
8a. 311,875,200 8b. 2,598,960 10a. 95,040 10b. 792
12a. 84 12b. =18. 406 20. 1728 22. 232,914,240
24. $\frac{n(n-3)}{2}$ 26. 4

Section 15.4

16. 15 18. 15,120

Section 15.5

22. $3360a^3$