

MATH 371 – Combinatorics

Homework Assignments

Assignment 1 (due August 26)

(only complete starred () problems below)*

- Section 2.1 # 2, 8*
- Section 2.2 # 3, 5*
- Section 2.3 # 7
- Section 2.5 # 3
- Section 2.7 # 16*, 19*, 22*
- Section 2.8 # 7, 9, 10*
- Section 2.9 # 5, 9*
- Section 2.10 # 1(b)(f), 3 (only do for 1(b) & 1(f)), 22*, 24*
- Section 2.11 # 7*, 15

Assignment 2 (due September 2)

(only complete starred () problems below)*

- Section 2.14 # 6, 16(a)(d)
- Section 2.19 # 9*, 11, 18*, 27
- Section 3.1 # 16*, 20, 29*
- Section 3.2 # 2, 16*, 19(a)*, 32(a)*
- Section 3.3 # 4, 21, 24, 26*, 27*, 53*, 55*
- Section 3.4 # 1, 2*, 5, 21*

Assignment 3 (due September 9)

- Section 3.5 # 2, 7(a)(f), 9, 11, 12
- Section 3.6 # 5, 12, 35, 40

Assignment 4 (due September 16)

- Section 5.1 # 1(a)(d)(f)(g), 3(a)(h)(m)(r), 5(a)(c), 11, 13, 16
- Section 5.2 # 4(a)(b)(f), 11, 14, 16

Assignment 5 (due September 25)

(only complete starred () problems below)*

- Section 5.3 # 1(b)(c)(d)(k)(m)(o), 2, 8, 16
- Section 5.4 # 2(a)(c)*, 7*, 10*, 13*
- Section 5.5 # 1(a)(f)*, 2(c)(h)*, 6(b)(c)(e)(k)(l)*, 14*, 20*

Assignment 6 (due September 30)

- Section 6.1 # 1, 11, 16, 21, 27
- Section 6.2 # 1(a)(d)(e)(i), 9, 12(a)(g), 18, 26

Assignment 7 (due October 7)

- Section 6.3 # 2(a), 9, 11, 12, 13, 14, 24
- Section 6.4 # 8, 19

Assignment 8 (due October 21)

- Section 7.1 # 5, 6, 26, 37
- Section 7.2 # 7, 8, 18, 20
- Section 8.1 # 1(a)(f), 3(c)
- Section 8.2 # 6, 10(a)

Assignment 9 (due November 10)

- Section 10.2 # 5(a)(c)(e)(f), 9(a)(b)(e), 12(b), 13, 14, 15
- Section 10.3 # 1(a), 3(c), 4(c), 8, 23
- Section 10.4 # 4(a)(c), 11(c), 14 (just do for 11(c)), 20

Assignment 10 (due November 24, optional)

- Section 10.2 # 16
- Section 10.3 # 10, 11(c)(d), 14, 24
- Section 10.4 # 5, 7(b), 23
- Section 1.1 # 1, 2, 4(a)