

ALGEBRA 2

Thurs., Apr. 17/Thurs., Apr. 24

Sec. 8.1 pp. 414-415 11, 13, 43, 45

Sec. 8.2 pp. 422-424

3-9 odd, 13 a_{75} , 16 a_{30} , 18 a_{20} ,

47 (5 to 26), 50 (8 to 35),

52 (2 to 21), 1-3 at right

1. Find S_n for each of the following:

(a) $37 + 45 + 53 + \dots + 7573$

(b) $289 + 273 + 257 + \dots + -223$

2. In February you start a holiday savings account with a deposit of \$20. You increase each monthly deposit by 5 dollars until the end of the year. How much money will you have saved by the end of the year?

3. A marching band formation has 9 rows. The first three rows have 9, 11, and 13 musicians, respectively. How many musicians are in the last row and how many musicians are in the band?

Math Matters Due

Tues., Apr. 22/Mon., Apr. 28

Sec. 8.3 pp. 430-432

5-11 odd, 15 a_9 , 18 a_7 , 21 a_8 ,

47 (2 to 9), 48 (5 to 11),

52, 53, 54, 59, a-b at right

Sec. 8.4 p. 439

7, 10, c-f, 17, 18

Find S_n for each of the following:

(a) $1/3 + 2 + 12 + \dots + 17,496$

(b) $128 - 32 + 8 - \dots + 1/32$

Determine whether each infinite geometric series converges or diverges.

If it converges, find the sum.

(c) $27 + 18 + 12 + \dots$

(d) $4 + 24 + 144 + \dots$

(e) $9/8 - 3/2 + 2 - \dots$

(f) $48 - 36 + 27 - \dots$

Fri., Apr. 25/Wed., Apr. 30

SEQUENCES & SERIES QUEST

Journal Due

Tues., Apr. 29/Fri., May 2

Semester Review

Thurs., May 1/Tues., May 6

Semester Review

Monday, May 5 (Purple Only)

Semester Review

Wed., May 7/Thurs., May 8

SEMESTER EXAM

End-of-Year Journal Due Next Class

ANSWERS

Sec. 8.2 pp. 422-424

- 13. 604
- 16. -117
- 18. 12.25 or $49/4$
- 47. 616
- 50. -2492
- 52. 10

- 1. a) 3,588,115
b) 1089
- 2. \$495
- 3. a) 25 b) 153 members

Sec. 8.3 pp. 430-432

- 15. 1, 562, 500
- 18. $3/125$ or 0.024
- 21. -2843.1
- 47. 40,353,600
- 48. 9,786,112
- 52. $\frac{1,272,249}{262,144} \approx 4.85$
- 54. -137,774
- a) 20,995.13
- b) $\frac{3277}{32}$

Sec. 8.4 p. 439

- 10. diverges, $|r| \geq 1$
- c) converges; $S = 81$
- d) diverges, $|r| \geq 1$
- e) diverges, $|r| \geq 1$
- f) converges; $S = \frac{192}{7}$
- 18. \$2,916,667