

ALGEBRA 2

Fri., Apr. 12/Mon., Apr. 15

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. 16/Wed., Apr. 17

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) $48 - 36 + 27 - \dots$

Thurs., Apr. 18/Fri., Apr. 19

SEQUENCES & SERIES QUEST

Journal Due

Tues., Apr. 23/Thurs., Apr. 25

Semester Review

Fri., Apr. 26/Mon., Apr. 29

Semester Review

Tues., Apr. 30/Wed., May 1

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