

Written Exercises

Expand and simplify each expression.

- A
- | | | | |
|------------------|------------------------|---------------------|--------------------------------------|
| 1. $(x + y)^3$ | 2. $(x + y)^4$ | 3. $(x - d)^5$ | 4. $(p - q)^6$ |
| 5. $(a + 1)^6$ | 6. $(x - 2)^7$ | 7. $(3r + 4)^8$ | 8. $(2y - 3)^9$ |
| 9. $(x^2 - 1)^8$ | 10. $(\sqrt{x} + 3)^4$ | 11. $(p^2 + q^2)^5$ | 12. $\left(a + \frac{1}{a}\right)^4$ |

In Exercises 13–16, use the symmetry of the coefficients.

13. The first three terms of $(x + y)^{17}$ are $x^{17} + 17x^{16}y + 136x^{15}y^2$. Write the last three terms. **136x²y¹⁵ + 17xy¹⁶ + y¹⁷**
14. The first three terms of $(p - q)^{22}$ are $p^{22} - 22p^{21}q + 231p^{20}q^2$. Write the last three terms. **231p²q²⁰ - 22pq²¹ + q²²**
15. The tenth term of $(x + 1)^{20}$ is $167,960x^{11}$. Write the twelfth term. **(Hint: The eleventh term is the middle term.) 167,960x⁹**
16. The eighth term of $(p - q)^{15}$ is $-6435p^8q^7$. Write the ninth term. **6435p⁷q⁸**

Expand and simplify each expression.

- B
- | | |
|-----------------------------|-----------------------------|
| 17. $(a + b)^7 + (a - b)^7$ | 18. $(a + b)^8 - (a - b)^8$ |
| 19. $(a^2 + 2ab + b^2)^3$ | 20. $(x - 1)^4(x + 1)^4$ |
21. Use the first three terms of a binomial expansion to approximate $(2.1)^7$. **[Hint: $(2.1)^7 = (2 + 0.1)^7$.] 179.52**
22. Use the first four terms of a binomial expansion to approximate $(9.8)^6$. **[Hint: $(9.8)^6 = (10 - 0.2)^6$.] 9223.68**
- C
23. a. Find the sum of the entries in each of the first 7 rows of Pascal's triangle.
b. Guess a formula for the sum of the entries in the n th row. **2^n**
24. Find a formula for the sum of all entries in rows 0 through n of Pascal's triangle. **$2^{n+1} - 1$**

Mixed Review Exercises

Tell whether each sequence is arithmetic, geometric, or neither. Then find a formula for the n th term of the sequence.

- | | | | |
|---|---|-----------------------|---|
| 1. $\frac{2}{3}, \frac{4}{5}, \frac{6}{7}, \dots$ | 2. $\frac{9}{16}, \frac{3}{4}, 1, \dots$ | 3. 7, 3, -1, ... | 4. -24, 12, -6, ... |
| Neither; $\frac{2n}{3n+1}$ | Geometric; $\frac{9}{16}\left(\frac{4}{3}\right)^{n-1}$ | Arithmetic; $11 - 4n$ | Geometric; $-24\left(-\frac{1}{2}\right)^{n-1}$ |

Find the sum of each series.

- | | | |
|---|--|--|
| 5. $5 + 9 + 13 + \dots + 45$ 275 | 6. $6 + \frac{9}{2} + \frac{27}{8} + \dots + 24$ | 7. $\sum_{n=1}^6 3 \cdot 2^n$ 378 |
|---|--|--|

Supplementary Materials

Study Guide pp. 183–184
Resource Book p. 149

Additional Answers Written Exercises

- | |
|---|
| 1. $x^3 + 3x^2y + 3xy^2 + y^3$ |
| 2. $x^4 + 4x^3y + 6x^2y^2 + 4xy^3 + y^4$ |
| 3. $c^5 - 5c^4d + 10c^3d^2 - 10c^2d^3 + 5cd^4 - d^5$ |
| 4. $p^6 - 6p^5q + 15p^4q^2 - 20p^3q^3 + 15p^2q^4 - 6pq^5 + q^6$ |
| 5. $a^6 + 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5 + b^6$ |
| 6. $x^3 - 6x^2 + 12x - 8$ |
| 7. $243x^6 + 1620x^4 + 4320x^2 + 5760x + 3840 + 1024$ |
| 8. $16y^4 - 96y^3 + 216y^2 - 216y + 81$ |
| 9. $x^{12} - 6x^{10} + 15x^8 - 20x^6 + 15x^4 - 6x^2 + 1$ |
| 10. $x^2 + 12x\sqrt{x} + 54x + 108\sqrt{x} + 81$ |
| 11. $p^6 + 3p^4q^2 + 3p^2q^4 + q^6$ |
| 12. $a^5 + 5a^3 + 10a + \frac{10}{a} + \frac{5}{a^3} + \frac{1}{a^5}$ |
| 17. $2a^7 + 42a^5b^2 + 70a^3b^4 + 14ab^6$ |
| 18. $16a^7b + 112a^5b^2 + 112a^3b^3 + 16ab^4$ |
| 19. $a^6 + 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5 + b^6$ |
| 20. $x^6 - 4x^4 + 6x^2 - 4x^2 + 1$ |

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