

Math 3 Advanced

6.3 Practice Part 2 with KEY

Find the requested term of a binomial expansion (you may use a calculator).

1. Write the 6th term in the expansion $(c + d)^{12}$.
2. Write the 8th term in the expansion $(a - b)^{13}$.
3. Write the 8th term in the expansion $(2a - b)^{11}$.
4. Write the term in the expansion of $(4c + 2d)^6$ that contains c^4 .
5. Write the term in the expansion of $(2m - 3n)^5$ that contains m^3 .
6. Write the term in the expansion of $(x - 5y)^{10}$ that contains x^7 .
7. Write the term in the expansion of $(4s - t)^9$ that contains t^5 .
8. Find the term involving x^8 in the expansion $(2x^2 - y)^9$.

Answer List

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|--------------------|--------------------|
| 1. $792c^7d^5$ | 2. $-1716a^6b^7$ |
| 3. $-5280a^4b^7$ | 4. $15,360c^4d^2$ |
| 5. $720m^3n^2$ | 6. $-15,000x^7y^3$ |
| 7. $-32,256s^4t^5$ | 8. $-2016x^8y^5$ |