

Guided Practice

1. Evaluate.

- a. $\frac{20!}{18!} = 380$ b. $\frac{8!}{5!3!} = 56$
 c. $\frac{10!}{2!8!} = 45$ d. $\frac{(x+1)!}{(x-1)!} = x(x+1)$

Write the first four terms in the expansion of each of the following.

2. $(a - x)^{18}$
 $a^{18} - 18a^{17}x + 153a^{16}x^2 - 816a^{15}x^3$
 3. $(1 + 2x)^{16}$
 $1 + 32x + 480x^2 + 4480x^3$
 4. Find the term containing x^6 in $(x + y)^{12}$.
 $792x^6y^6$
 5. Find the term containing y^2 in $(2x - y)^8$.
 $-1792x^6y^2$
 6. Find the fifth term of $(1 + y^2)^6$. $15y^8$

Summarizing the Lesson

In this lesson students learned about factorial notation and the binomial theorem. Students then learned to use the binomial theorem to find a particular term of a binomial expansion. Ask students to state the $(k + 1)$ st term in the expansion of $(a + b)^n$.

Suggested Assignments

Average Algebra
 542/1-13, 15-27 odd
 S 534/P: 8, 10
 R 543/Self-Test 3
 Average Alg. and Trig.
 542/1-13, 15-27 odd
 R 543/Self-Test 3

This means you can write the binomial theorem in a compact form using sigma notation:

$$(a + b)^n = \sum_{k=0}^n \frac{n!}{(n-k)!k!} a^{n-k} b^k$$

Oral Exercises

Evaluate.

1. $3! = 6$ 2. $2! = 2$ 3. $\frac{5!}{4!} = 5$ 4. $\frac{11!}{9!} = 110$
 5. $\frac{4!}{3!1!} = 4$ 6. $\frac{5!}{2!3!} = 10$ 7. $\frac{6!}{4!2!} = 15$ 8. $\frac{4!}{4!0!} = 1$
 9. Give the coefficient of the third term in the expansion of each of the following.
 a. $(a + b)^{10} = 45$ b. $(c - d)^8 = 28$ c. $(x + 2y)^5 = 40$
 10. Give (a) the power of a and (b) the power of b for the given term in the expansion of $(a + b)^{20}$.
 a. The fifth term b. The eleventh term
 (a) 16 (b) 4 (a) 10 (b) 10

Written Exercises

Evaluate.

- A 1. $6! = 720$ 2. $7! = 5040$ 3. $\frac{5!}{3!} = 20$ 4. $\frac{8!}{7!} = 8$
 5. $\frac{100!}{99!} = 100$ 6. $\frac{20!}{18!} = 360$ 7. $\frac{10!}{7!3!} = 120$ 8. $\frac{10!}{4!6!} = 210$
 9. $\frac{(n+1)!}{n!} = n+1$ 10. $\frac{n!}{(n-2)!} = n^2 - n$ 11. $\frac{(n+1)!}{(n-1)!2!} = \frac{n^2+n}{2}$ 12. $\frac{n!}{3!(n-3)!}$

Write the first four terms in the expansion of each of the following.

13. a. $(a + b)^{14}$ 14. a. $(a + b)^{12}$ 15. a. $(a + b)^{20}$ 16. a. $(a + b)^{21}$
 b. $(a - b)^{14}$ b. $(a - b)^{12}$ b. $(x - 2y)^{18}$ b. $(c - d^2)^{21}$

Find and simplify the specified term in each expansion.

17. The term containing b^5 in $(a + b)^{20}$ 18. The term containing b^{13} in $(a - b)^{27}$
 $15,504a^{15}b^5$ $-105a^2b^{13}$
 19. The eleventh term of $(x - y)^{14}$ 20. The eighteenth term of $(x + y)^{18}$
 $1001x^4y^{10}$ $18x^{17}y$
 B 21. The term containing a^4 in $(a + 2b)^7$ 22. The term containing x^2 in $(2x - y)^7$
 $4032a^4b^3$ $-64x^2y^5$
 23. The middle term of $(c^2 - 2d)^8$ 24. The term containing b^6 in $(a + 3b^2)^4$
 $1120c^6d^2$ $270a^2b^6$

Holt Algebra Lessons Answers

M Lipman



Holt Algebra Lessons Answers:

Holt Algebra Lessons Answers Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Holt Algebra Lessons Answers**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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