

LESSON PRACTICE

Expand.

1. $(X + 3)^2$

2. $(A - 3)^2$

3. $(3X + 4)^2$

4. $(2X + 1)^2$

Find the binomial or square roots of the trinomial.

5. $X^2 + 8X + 16$

6. $X^2 - 18X + 81$

7. $A^2 + 16A + 64$

8. $A^2 - 16A + 64$

Expand.

Expand

9. $(X + 5)^3$

10. $(3X - 2)^3$

11. $(X + 3)^3$

11. $(2A + 2B)^3$

12. $(X - 1)^3$

13. $(1 + X)^3$

14. $(X + A)^3$

13. $(Y - 1/4)^3$

14. $(2R + 3)^3$

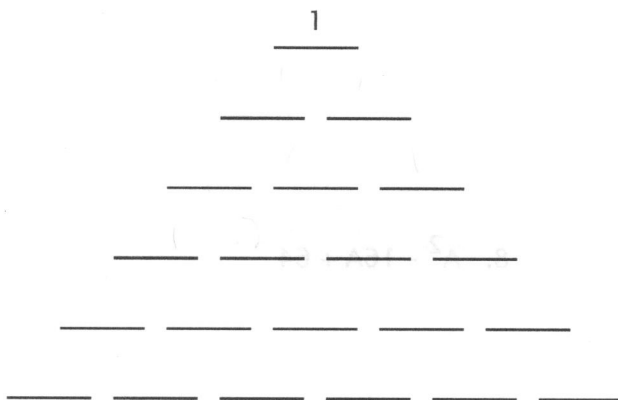
Find the binomial or square roots of the trinomial.

15. $x^2 - 18x + 81$

16. $x^2 + 8x + 16$

Write the coefficients of Pascal's triangle for the first five powers.

15.



17. $A^2 + 16A + 64$

SYSTEMATIC REVIEW

Expand.

1. $(X + 8)^2$

2. $(4X + 1)^2$

Find the binomial roots of the trinomial.

3. $X^2 + 8X + 16$

4. $9X^2 + 12X + 4$

Expand.

5. $(X + 6)^3$

6. $(2X + 5)^3$

7. $(X + 4)^3$

8. $(X - 2/3)^3$

9. The conjugate of $6 + 3\sqrt{-9}$ is _____?

10. What are the factors of $100X^2 - 83$?

Simplify so that there are no imaginary numbers or radicals in the denominator.

$$11. \frac{5\sqrt{7}}{2\sqrt{7}-3}$$

$$12. \frac{4}{10-7i}$$

Simplify, and combine like terms when possible.

$$13. (10i^2)(\sqrt{-75})$$

$$14. (2i)^3$$

Simplify.

$$15. (9^{1/2})^{-5}$$

$$16. (\sqrt[3]{X^9})^{-2}$$

Solve and check the answer.

$$17. 5X^2 - 3X = 0$$

$$18. \frac{X^2+5X}{25-X^2} \div \frac{X+5}{10X-50} =$$

$$19. 3\sqrt{\frac{2}{7}} - 7\sqrt{\frac{3}{X}} =$$

$$20. 1 + \frac{4-5X}{2} \cdot \frac{X+3}{4}$$