## LESSON PRACTICE



Complete the square by finding the last term.

1. 
$$X^2 + 10X + ____$$

2. 
$$x^2 - 8x +$$
\_\_\_\_\_

Complete the square by finding the middle term.

3. 
$$X^2 + \underline{\hspace{1cm}} + 4$$

4. 
$$A^2 + \underline{\phantom{a}} + 225$$

Solve for X. Complete the square when necessary. Check your work.

5. 
$$X^2 + 2X + 3 = 0$$

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6. 
$$X^2 - 5X + 4 = 0$$

7. 
$$2X^2 + 8X + 2 = 0$$

8. 
$$X^2 + 4X - 7 = 0$$

9. 
$$3X^2 - 9X + 3 = 0$$

10. 
$$x^2 - 2x - 11 = 0$$

## SYSTEMATIC REVIEW

Answer the questions.

- 1. Expand  $(3X 1/4)^2$ .
- 2. Expand  $(X + 11)^2$ .

Complete the square by finding the missing term.

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

4. 
$$X^2 + 30X + ____$$

5. 
$$X^2 + \underline{\hspace{1cm}} + 36$$

6. 
$$4X^2 + \underline{\hspace{1cm}} + 9$$

Solve for X. Complete the square when necessary.

7. 
$$X^2 - 3X - 9 = 0$$

8. Check the validity of the roots in #7 by placing them in the original equation.

9. 
$$2X^2 + 3X - 2 = 0$$

10. Check the validity of the roots in #9 by placing them in the original equation.

## SYSTEMATIC REVIEW 11E

- 11. Expand  $(X + 2)^5$ .
- 12. Expand  $(2X 1)^4$ .
- 13. What is the third term of  $(X 1)^6$ ?
- 14. What is the fourth term of  $(X 1)^6$ ?
- 15. Expand  $(3X + 1)^3$ .
- 16. Find the cube root of  $X^3 + 15X^2 + 75X + 125$ .

Put in standard form.

17. 
$$\frac{3-2\sqrt{-5}}{7i+2}$$

$$18. \quad \frac{1+\sqrt{X}}{2-\sqrt{X}}$$

Simplify, and combine like terms when possible.

19. 
$$(18i)(\sqrt{-36} + 7i)$$

20. 
$$(i^2)(i)(i^3)$$