Name _____ Date _____ Class_____

LESSON 18-3

Special Products of Binomials

Practice and Problem Solving: Modified

Fill in the blanks. Then simplify. The first one is done for you.

1. $(x+5)^2$

   $\underline{x}^2 + 2(\underline{x})(\underline{5}) + \underline{5}^2$

   $x^2 + 10x + 25$

2. $(m+3)^2$

   $\_\_\_^2 + 2(\_\_\_)(\_\_\_) + \_\_\_^2$

   _____

3. $(2+a)^2$

   $\_\_\_^2 + 2(\_\_\_)(\_\_\_) + \_\_\_^2$

   _____

Find the product.

4. $(x+4)^2$

   _____

5. $(a+7)^2$

   _____

6. $(8+b)^2$

   _____

Fill in the blanks. Then simplify. The first one is done for you.

7. $(y-4)^2$

   $\underline{y}^2 - 2(\underline{y})(\underline{4}) + \underline{4}^2$

   $y^2 - 8y + 16$

8. $(y-6)^2$

   $\_\_\_^2 + 2(\_\_\_)(\_\_\_) + \_\_\_^2$

   _____

9. $(9-x)^2$

   $\_\_\_^2 + 2(\_\_\_)(\_\_\_) + \_\_\_^2$

   _____

Find the product.

10. $(x-10)^2$

    _____

11. $(b-11)^2$

    _____

12. $(3-x)^2$

    _____

Fill in the blanks. Then simplify. The first one is done for you.

13. $(x+7)(x-7)$

    $\underline{x}^2 - \underline{7}^2$

    $x^2 - 49$

14. $(4+y)(4-y)$

    $\_\_\_^2 - \_\_\_^2$

    _____

15. $(x+2)(x-2)$

    $\_\_\_^2 - \_\_\_^2$

    _____

Find the product.

16. $(x+8)(x-8)$

    _____

17. $(3+y)(3-y)$

    _____

18. $(x+1)(x-1)$

    _____

_____