Name: _____ Date: _____ Period: _____

Multiplying Polynomials
9.2 Practice 3

Find each product.

1. $(q + 6)(q + 5)$

2. $(x + 7)(x + 4)$

3. $(s + 5)(s – 6)$

4. $(n – 4)(n – 6)$

5. $(a – 5)(a – 8)$

6. $(w – 6)(w – 9)$

7. $(4c + 6)(c – 4)$

8. $(2x – 9)(2x + 4)$

9. $(4d – 5)(2d – 3)$

10. $(4b + 3)(3b – 4)$

11. $(4m + 2)(4m – 3)$

12. $(5c – 5)(7c + 9)$

13. $(6a – 3)(7a – 4)$

14. $(6h – 3)(4h – 2)$

15. $(2x – 2)(5x – 4)$

16. $(3a – b)(2a – b)$

17. $(4g + 3h)(2g + 3h)$

18. $(4x + y)(4x + y)$

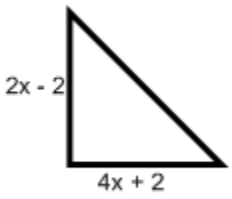
19. $(m + 5)(m^2 + 4m - 8)$ **20.** $(t + 3)(t^2 + 4t + 7)$ **21.** $(2h + 3)(2h^2 + 3h + 4)$

22. $(3d + 3)(2d^2 + 5d - 2)$ **23.** $(3q + 2)(9q^2 - 12q + 4)$ **24.** $(3r + 2)(9r^2 + 6r + 4)$

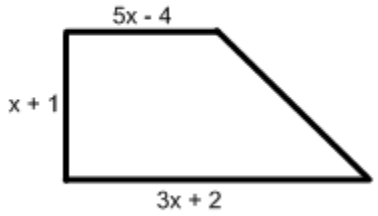
25. $(3c^2 + 2c - 1)(2c^2 + c + 9)$ **26.** $(2l^2 + l + 3)(4l^2 + 2l - 2)$ **27.** $(2x^2 - 2x - 3)(2x^2 - 4x + 3)$

GEOMETRY Write an expression to represent the area of each figure.

29.



30.



31. NUMBER THEORY Let x be an even integer. What is the product of the next two consecutive even integers?

32. GEOMETRY The volume of a rectangular pyramid is one third the product of the area of its base and its height. Find the expression for the volume of a rectangular pyramid whose base has an area of $3x^2 + 12x + 9$ square feet whose height is $x + 3$ feet.