

2.2 Practice B

In Exercises 1–3, use the Distributive Property to find the product.

1. $(p - 5)(p - 8)$

2. $(5t + 1)(t - 2)$

3. $(4v - 3)(v + 7)$

In Exercises 4–6, use a table to find the product.

4. $(2p + 4)(5p - 1)$

5. $(-4 + 3r)(7r - 2)$

6. $(4t - 9)(-6 + 2t)$

7. Describe and correct the error in finding the product of the binomials.

\times $(x - 2)(5 - x)$

	5	$-x$
x	$5x$	$-x^2$
-2	-10	$2x$

$(x - 2)(5 - x) = 4x^2 + 2x - 10$

In Exercises 8–13, use the FOIL Method to find the product.

8. $(z + 9)(z - 8)$

9. $(m - \frac{2}{5})(m + \frac{4}{5})$

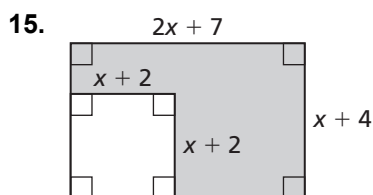
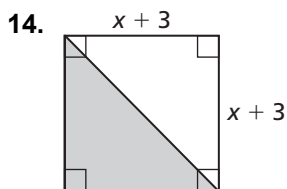
10. $(4 - x)(8 - 3x)$

11. $(9g^2 - 6)(2g^2 + 3)$

12. $(p + 4)(p^2 + 7p)$

13. $(d - 2)(d^2 - 5d)$

In Exercises 14 and 15, write a polynomial that represents the area of the shaded region.



In Exercises 16–18, find the product.

16. $(x + 10)(3x^2 + 5x - 2)$

17. $(2t^2 - 9t - 5)(3t + 7)$

18. $(3r^2 + 3r - 8)(5 - 2r)$

19. Write two polynomials that are not monomials, whose product is a trinomial of degree 4.