Practice A

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

1.
$$(x+4)(x+5)$$
 2. $(x+1)(x-6)$

2.
$$(x+1)(x-6)$$

3.
$$(x-2)(x-7)$$

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

4.
$$(y + 4)(y + 2)$$
 5. $(q + 4)(q - 7)$ **6.** $(2x - 3)(x - 1)$

5.
$$(q+4)(q-7)$$

6.
$$(2x-3)(x-1)$$

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

	(-2)(5-x)				
	X	5			
x	x^2	5 <i>x</i>			
-2	-2x	-10			

$$(x-2)(5-x) = x^2 + 3x - 10$$

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

8.
$$(u + 2)(u + 9)$$

9.
$$(w+6)(w-5)$$

8.
$$(u+2)(u+9)$$
 9. $(w+6)(w-5)$ **10.** $(m-1)(m+8)$

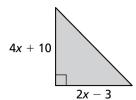
11.
$$(y-6)(y-3)$$

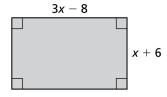
11.
$$(y-6)(y-3)$$
 12. $(q+\frac{1}{2})(q-\frac{3}{2})$ **13.** $(2-5t)(7-t)$

13.
$$(2-5t)(7-t)$$

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

14.





In Exercises 16-18, find the product.

16.
$$(x+2)(x^2+5x+1)$$

16.
$$(x+2)(x^2+5x+1)$$
 17. $(y+5)(y^2+2y-6)$ **18.** $(h-7)(h^2-3h+2)$

18.
$$(h-7)(h^2-3h+2)$$

19. When multiplying a binomial by a trinomial, is the degree of the product always 5? Explain.

Practice B

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

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

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

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

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.

X	(x - 2)	$(5 - \lambda)$	c)	
		5	-x	
	х	5 <i>x</i>	$-x^2$	
	-2	-10	2x	

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

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

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

8.
$$(z+9)(z-8)$$
 9. $(m-\frac{2}{5})(m+\frac{4}{5})$ **10.** $(4-x)(8-3x)$

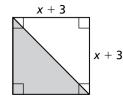
10.
$$(4-x)(8-3x)$$

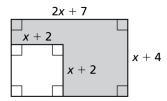
11.
$$(9-6g)(2g+3)$$

11.
$$(9-6g)(2g+3)$$
 12. $(p+4)(p^2+7p)$ **13.** $(d-2)(d^2-5d)$

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

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.