Name: Da	ate:
UNIT 5 • POLYNOMIAL OPERATIONS AND QUADRATIC FUNCTIONS Lesson 5.2: Multiplying Polynomials	A-APR.1
Practice 5.2: Multiplying Polynomials	A
Find each product.	
1. $(x + 10)(x - 7)$	

- 2. $(3x+5)(x^3+4x)$
- 3. $(2x+1)(x^4-6x+3)$
- 4. $(x^5 2)(x^2 + 2x + 4)$
- 5. $(2x^2 + x 6)(10x + 4)$
- 6. (2x-3)(-4x+3)

The area of a rectangle is found using the formula A = lw, where *l* is the length of the rectangle and *w* is the width. Multiply each pair of factors and express the area of each rectangle as a single polynomial in terms of *x*.

- 7. l = x + 14; w = 3x + 1
- 8. $l = x^2 8; w = -x + 12$
- 9. $l = x^2 4; w = 5x + 10$
- 10. $l = 4x^2 + 8; w = 2x^2 3$