

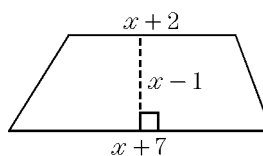
Polynomials - Multiplying (Unit 2)

Name: _____

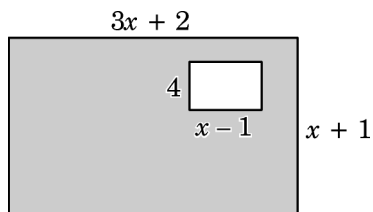
Date: _____

1. Simplify: $a^3(4a - 3a^2)$
2. Simplify: $c^4(5c^3 + c^5)$
3. Simplify: $-8m^6(-3m^2 + m + 3)$
4. Simplify: $(x + 3)(x - 3)$
5. Simplify: $(x + 5)(x - 5)$
6. Simplify: $(2x - 3)(5x + 1)$
7. Simplify: $(8x - 1)(4x + 3)$
8. Simplify: $(p - 5)^2$
9. Multiply: $(x^2 + 2x + 3)(x^2 - 2x - 1)$
10. Simplify: $(x^2 + y^2)(x^3 - 5x^2y + 3xy^2 - y^3)$
11. Simplify: $7x^2 - 5t - 2(x^2 - 3t)$

12. Simplify: $6jk(2j + 3jk)$
13. Given the trapezoid shown, express the area in terms of x .



14. Find the area of the shaded region in terms of x .



15. A rectangular field, twice as long as it is wide, is completely enclosed by x yards of fencing. The area in terms of x is: