NAME_____**DATE**_____**PER.**_____

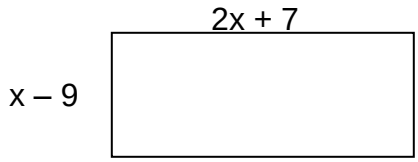
MULTIPLY POLYNOMIALS

Simplify each product.

1. $-4x(x^2 + 2x - 3)$	2. $2x(x^2 - 6x + 1)$
3. $2(4x + 3) - 3(x^2 - 5)$	4. $6x(x - 1) - 2(x^2 - 3)$
5. $-2x(x - 7) + x(x + 9)$	6. $-6(x^2 + 3x - 2) - (x - 1)$
7. $(x + 5)(x + 1)$	8. $(x - 6)(x + 3)$
9. $(4x - 3)(x - 2)$	10. $(6x - 1)^2$

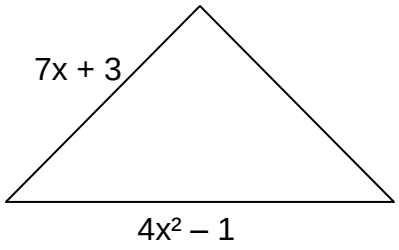
11. $(3x - 2)(3x + 2)$

12. Find the area of the rectangle below.



Review. Show all work.

13. The measures of two sides of a triangle are given. The perimeter of the triangle is $10x^2 + 4x - 9$. Find the measure of the third side.



14. Find the area of the square that has side length $7a^4$.

15. For a jogger traveling at a speed of 6 miles per hour, the relationship between the distance traveled, d, and the time traveled, t, is described by the function $d = 6t$. Which statement is true?

A. The time traveled depends on the distance traveled
B. The distance traveled depends on the time traveled
C. The speed of the runner depends on the distance traveled
D. The speed of the runner depends on the time traveled

16. The surface area of a cube can be found by using the formula $A = 6s^2$. Which of the following represents the independent quantity in this situation?

A. A
B. 6
C. s
D. 2