

NAME: _____

PRACTICE WITH POLYNOMIALS

DATE: _____ HR: _____

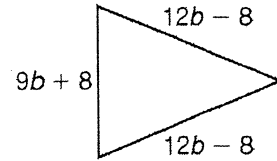
Write each polynomial in standard form. Then, give the leading coefficient.

4. $3x^2 - 2 + 4x^8 - x$ _____
5. $7 - 50j + 3j^3 - 4j^2$ _____
6. $6k + 5k^4 - 4k^3 + 3k^2$ _____

ADD or SUBTRACT

11. $(-r^2 + 8pr - p) - (-12r^2 - 2pr + 8p)$ _____
12. $(un - n^2 + 2un^3) - (3un^3 + n^2 + 4un)$ _____

13. Antoine is making a banner in the shape of a triangle. He wants to line the banner with a decorative border. How long will the border be?



FIND THE PRODUCT

10. $(2x + 5)(x + 6)$ _____
11. $(m^3 + 3)(5m + n)$ _____
12. $(a^2 + b^2)(a + b)$ _____
13. $(x + 4)(x^2 + 3x + 5)$ _____
14. $(3m + 4)(m^2 - 3m + 5)$ _____
15. $(2x - 5)(4x^2 - 3x + 1)$ _____

FIND THE PRODUCT - LOOK FOR A PATTERN

16. $(5x + 2)(5x - 2)$ _____
17. $(10x + 7y)(10x - 7y)$ _____
18. $(x^2 + 3y)(x^2 - 3y)$ _____

19. Write a simplified expression that represents the...

a. area of the large rectangle.

b. area of the small rectangle.

c. area of the shaded area.

