

REVIEW Unit 3 Quiz polynomial expressions and equations**Add or subtract the polynomials. Write your answer in standard form.**

1. $(6x + 3) + (2x - 7)$

2. $(9m - 1) + (2m^2 - 4)$

3. $(-4p^2 - 7p) + (8p^2 + 3p - 10)$

4. $(a + b) - (5a + 2b)$

5. $(x^3 - 3x + 1) - (x^3 + 7 - 12x)$

6. $(-8y^2 + 5y - 1) - (5y^2 + 3y - 9)$

Find each product or simplify each expression.

7. $-2g(g^2 - 2g + 3)$

8. $2xy(2y - 5x^2)$

9. $x(6x - 5) - 7x$

10. $-x(2x^2 - 4x) - 6x^2$

11. $4n(3n^2 + n - 4) - n(3 - n)$

12. $4r(2r^2 - 3r + 5) + 6r(4r^2 + 2r + 8)$

Solve.

13. $2(x + 5) - 3 = 11$

14. $3(2h - 6) - (2h + 1) = 9$

15. $3(x^2 - 2x) = 3x^2 + 5x - 11$

Find the product.

16. $(x + 2)(x + 3)$

17. $(2r - 6)(r + 1)$

18. $(8y - 5)(4y - 3)$

19. $(2n - 4)(2n + 5)$

20. $(m + 5)^2$

21. $(2p - 3)^2$

22. $(m - n)(m + n)$

23. $(x - 6y)(x + 6y)$

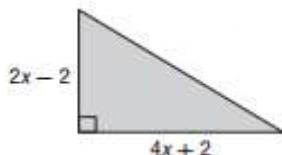
24. $(x + 6y)(x + 6y)$

25. $(x + 2)(x^2 - 2x + 1)$

26. $(2x - 1)(x^2 - x + 2)$

Write an expression to represent the area of each shape.

27.



28.

