

Practice

Student Edition
Pages 529-533**Multiplying a Polynomial by a Monomial**

Find each product.

1. $6(4a + 3)$

2. $-7(11c + 4)$

3. $-3(2x - 5)$

4. $\frac{1}{2}z(6z + 2)$

5. $4a(3x + 5)$

6. $1.2c(3c + 5)$

7. $3e(2e^2 - 5e)$

8. $7f(3f^2 + f)$

9. $6rs(2r^2 + 3rs)$

10. $2c^2d(4cd - d^2)$

11. $5m(11m^2 - 4n)$

12. $-\frac{1}{3}y(9y + 3yz)$

13. $-4ay(ay - ab)$

14. $2.1p(3p - q)$

15. $-3mn^2(2m - 3n)$

16. $-9w^2(7 - w)$

17. $\frac{3}{4}k^2(8k - 12k^2)$

18. $-4.5cd(d^2 - 2c^2)$

19. $3x(5x^2 - x + 4)$

20. $7c(5 - 2c^2 + c^3)$

21. $2m(7m^3 + 5m^2 - m)$

22. $-3u(8u^2 - 3u + 1)$

23. $4r^2s(2r^2 - 5rs + s^2)$

24. $6i^2(5i^2x + ix - 3x^2)$

25. $-10pq(3pq + 4p - 5q^2)$

26. $-\frac{1}{4}h(8h^2 + h - 7)$

Simplify.

27. $5w(w^2 - 7w + 3) + 2w(2 + 19w - 2w^2)$

28. $6t(2t - 3) - 5(2t^2 + 9t - 3)$

29. $8b(b + 2b^3c + b^4) + 4b^2(1 + 6b^2c + b^3)$

30. $4x^2(x - 8x^2 - 3x^3) - 7x^3(8xy - 1)$