

GUIDED PRACTICE

SEE EXAMPLE 1

p. 504

Add or subtract.

1. $7a^2 - 10a^2 + 9a$

2. $13x^2 + 9y^2 - 6x^2$

3. $0.07r^4 + 0.32r^3 + 0.19r^4$

4. $\frac{1}{4}p^3 + \frac{2}{3}p^3$

5. $5b^3c + b^3c - 3b^3c$

6. $-8m + 5 - 16 + 11m$

SEE EXAMPLE 2

p. 505

Add.

7. $(5n^3 + 3n + 6) + (18n^3 + 9)$

8. $(3.7q^2 - 8q + 3.7) + (4.3q^2 - 2.9q + 1.6)$

9. $(-3x + 12) + (9x^2 + 2x - 18)$

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

SEE EXAMPLE 3

p. 505

Subtract.

11. $(6c^4 + 8c + 6) - (2c^4)$

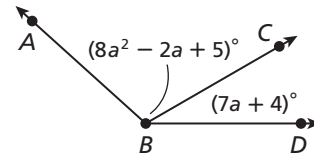
12. $(16y^2 - 8y + 9) - (6y^2 - 2y + 7y)$

13. $(2r + 5) - (5r - 6)$

14. $(-7k^2 + 3) - (2k^2 + 5k - 1)$

SEE EXAMPLE 4

p. 506

15. **Geometry** Write a polynomial that represents the measure of angle ABD .

PRACTICE AND PROBLEM SOLVING

Independent Practice

For Exercises	See Example
16–24	1
25–28	2
29–32	3
33–34	4

Add or subtract.

16. $4k^3 + 6k^2 + 9k^3$

17. $5m + 12n^2 + 6n - 8m$

18. $2.5a^4 - 8.1b^4 - 3.6b^4$

19. $2d^5 + 1 - d^5$

20. $7xy - 4x^2y - 2xy$

21. $-6x^3 + 5x + 2x^3 + 4x^3$

22. $x^2 + x + 3x + 2x^2$

23. $3x^3 - 4 - x^3 - 1$

24. $3b^3 - 2b - 1 - b^3 - b$

Add.

25. $(2t^2 - 8t) + (8t^2 + 9t)$

26. $(-7x^2 - 2x + 3) + (4x^2 - 9x)$

27. $(x^5 - x) + (x^4 + x)$

28. $(-2z^3 + z + 2z^3 + z) + (3z^3 - 5z^2)$

Subtract.

29. $(t^3 + 8t^2) - (3t^3)$

30. $(3x^2 - x) - (x^2 + 3x - x)$

31. $(5m + 3) - (6m^3 - 2m^2)$

32. $(3s^2 + 4s) - (-10s^2 + 6s)$

33. **Photography** The measurements of a photo and its frame are shown in the diagram. Write a polynomial that represents the width of the photo.



34. **Geometry** The length of a rectangle is represented by $4a + 3b$, and its width is represented by $7a - 2b$. Write a polynomial for the perimeter of the rectangle.

