

## GUIDED PRACTICE

## SEE EXAMPLE 1

p. 484

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. 485

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. 485

Subtract.

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

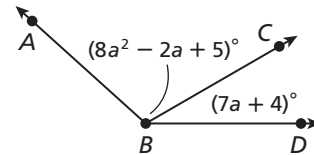
12.  $(16y^2 - 8y + 9) - (6y^2 - 2y + 7y)$

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

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

## SEE EXAMPLE 4

p. 486

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.

