



## GUIDED PRACTICE

SEE EXAMPLE 1 Factor each trinomial by guess and check.

1.  $2x^2 + 9x + 10$

2.  $5x^2 + 31x + 6$

3.  $5x^2 + 7x - 6$

4.  $6x^2 + 37x + 6$

5.  $3x^2 - 14x - 24$

6.  $6x^2 + x - 2$

Factor each trinomial. Check your answer.

SEE EXAMPLE 2 7.  $5x^2 + 11x + 2$

8.  $2x^2 + 11x + 5$

9.  $4x^2 - 9x + 5$

10.  $2y^2 - 11y + 14$

11.  $5x^2 + 9x + 4$

12.  $3x^2 + 7x + 2$

SEE EXAMPLE 3 13.  $4a^2 + 8a - 5$

14.  $15x^2 + 4x - 3$

15.  $2x^2 + x - 6$

16.  $6n^2 - 11n - 10$

17.  $10x^2 - 9x - 1$

18.  $7x^2 - 3x - 10$

SEE EXAMPLE 4 19.  $-2x^2 + 5x + 12$

20.  $-4n^2 - 16n + 9$

21.  $-5x^2 + 7x + 6$

22.  $-6x^2 + 13x - 2$

23.  $-4x^2 - 8x + 5$

24.  $-5x^2 + x + 18$

## PRACTICE AND PROBLEM SOLVING

## Independent Practice

For Exercises	See Example
25–33	1
34–42	2
43–48	3
49–51	4

Factor each trinomial by guess and check.

25.  $9x^2 + 9x + 2$

26.  $2x^2 + 7x + 5$

27.  $3n^2 + 8n + 4$

28.  $10d^2 + 17d + 7$

29.  $4c^2 - 17c + 15$

30.  $6x^2 + 14x + 4$

31.  $8x^2 + 22x + 5$

32.  $6x^2 - 13x + 6$

33.  $5x^2 + 9x - 18$

Factor each trinomial. Check your answer.

34.  $6x^2 + 23x + 7$

35.  $10n^2 - 17n + 7$

36.  $3x^2 + 11x + 6$

37.  $7x^2 + 15x + 2$

38.  $3n^2 + 4n + 1$

39.  $3x^2 - 19x + 20$

40.  $6x^2 + 11x + 4$

41.  $4x^2 - 31x + 21$

42.  $10x^2 + 31x + 15$

43.  $12y^2 + 17y - 5$

44.  $3x^2 + 10x - 8$

45.  $4x^2 + 4x - 3$

46.  $2n^2 - 7n - 4$

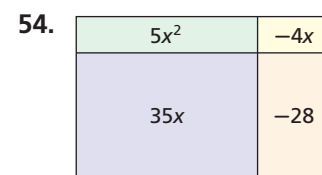
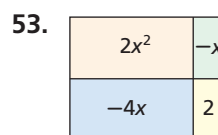
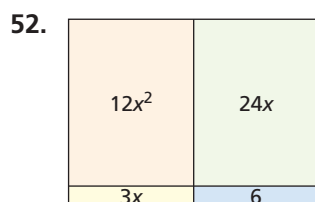
47.  $3x^2 - 4x - 15$

48.  $3n^2 - n - 4$

49.  $-4x^2 - 4x + 15$

50.  $-3x^2 + 16x - 16$

51.  $-3x^2 - x + 2$

**Geometry** For Exercises 52–54, write the polynomial modeled and then factor.

Factor each trinomial, if possible.

55.  $9n^2 + 17n + 8$

56.  $2x^2 - 7x - 4$

57.  $4x^2 - 12x + 5$

58.  $5x^2 - 4x + 12$

59.  $3x^2 + 14x + 16$

60.  $-3x^2 - 11x + 4$

61.  $6x^2 - x - 12$

62.  $10a^2 + 11a + 3$

63.  $4x^2 - 12x + 9$

my.hrw.com



Online Extra Practice