

GUIDED PRACTICE

SEE EXAMPLE 1

p. 568

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

p. 569

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

p. 570

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

p. 571

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. $3n^2 - n - 4$

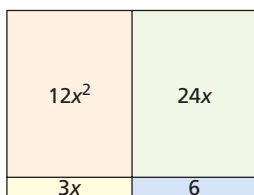
49. $-4x^2 - 4x + 15$

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

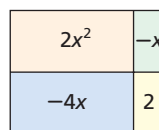
51. $-3x^2 - x + 2$


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

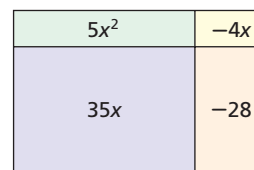
52.



53.



54.



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