

Lesson 10.5 Factoring Completely

Factor each expression completely.

13. $5b^2 + 20b - 60$

16. $4b^2 + 26b - 14$

19. $3x^2 - 3y^2$

22. $2y^3 - 4y^2 - 48y$

25. $2a^3 - 2a$

28. $3t^3 - 27t$

31. $2x^2 + 12x - 80$

34. $3x^3 - 33x^2 + 84x$

37. $2a^2 + 14a + 24$

40. $7a^2 - 14a - 105$

43. $6t^2 - 15t^3$

46. $n^2 + 5n + 7$

14. $2x^2 + 10x - 28$

17. $12x^2 - 10x - 12$

20. $24a^2 - 54b^2$

23. $2m^3 - 20m^2 + 18m$

26. $4b^2 - 24b + 20$

29. $3x^2 + 6x - 24$

32. $5y^2 - 45y - 110$

35. $x^4 - 9x^2$

38. $5y^2 - 45$

41. $3x^2 + 12x + 45$

44. $2 - 128t^2$

47. $3a^2 + a - 2$

15. $6x^2 - 21x - 12$

18. $18a^2 + 21a - 9$

21. $3b^2 - 3b$

24. $6z^3 - 3z^2 - 30z$

27. $12m^2 + 33m - 9$

30. $4x^2 - 32x + 60$

33. $2t^2 - 28t + 98$

36. $5x^2 + 60x - 140$

39. $st^2 - st - 20s$

42. $x^2 - 6x + 9$

45. $ab^2 - ab - 72a$

48. $2a^2 - 5a + 3$

49. $a^2 + 25$

52. $y^4 - 6y^2 - 16$

55. $x^3 - x$

58. $x^2 + 4y^2$

50. $q^2 - 12q - 28$

53. $49c^2 + 70c + 25$

56. $a^4 - 16$

59. $2xy + 2yz + z^2 - x^2$

51. $2x^2 - 14x + 24$

54. $5a^2 - 80$

57. $1 - 4y^2$

60. $2 - 2y^2$