

Foiling

Find each product (foil).

1. $(x + 1)(x + 3) =$

2. $(x - 4)(x + 3) =$

3. $(a + 5)(a + 8) =$

4. $(z + 1)(z + 2) =$

5. $(x - 4)(x + 1) =$

6. $(x - 3)(x - 3) =$

7. $(a + 1)(a - 1) =$

8. $(z + 8)(z + 7) =$

9. $(x - 1)(x - 6) =$

10. $(x + 4)(x + 8) =$

11. $(z + 8)(z - 7) =$

12. $(x + 9)(x + 3) =$

13. $(z + 5)(z - 7) =$

14. $(t + 4)(t + 5) =$

15. $(r - 4)(r + 2) =$

16. $(r - 7)(r - 9) =$

17. $(t + 2)(t + 3) =$

18. $(x + 5)(x + 9) =$

19. $(m + 7)(m + 2) =$

20. $(m - 9)(m - 3) =$

21. $(x + 7)(x - 9) =$

22. $(r - 7)^2 =$

23. $(t + 6)^2 =$

24. $(m + 5)^2 =$

25. $(z + 9)(z - 3) =$

26. $(y + 2)^2 =$

27. $(2x + 1)(x + 3) =$

28. $(4y - 1)(y - 7) =$

29. $(2x - 3)(x + 1) =$

30. $(4x + 1)^2 =$

31. $(x - 3)(2x + 3) =$

32. $(4z + 4)(z - 2) =$

33. $(3z + 1)(3z - 1) =$

34. $(1 + 9x)(2 - 3x) =$

35. $(2 - 4x)(x + 3) =$

36. $(2z - 1)(3z + 1) =$

37. $(7w - 2)(7w + 4) =$

38. $(3t + 3)(2t - 1) =$

39. $(5m + 1)(3m + 3) =$

40. $(6t + 5)(2t + 9) =$

41. $(6x + 3)^2 =$

42. $-2(x - 1)(x + 3) =$

43. $-(x - 7)(x + 4) =$

44. $-4(w + 1)(w + 7) =$

45. $-9(x + 3)(x + 4) =$

46. $-(y + 5)(y - 5) =$

47. $-(a + 9)(a + 4) =$

48. $-7(x + 4)(x - 1) =$

49. $6(x + 1)^2 =$

50. $2(m + 3)^2 =$

51. $2(5a + 4)^2 =$

52. $-6(x - 1)^2 =$

53. $-3(y + 9)^2 =$

54. $-4(3z + 4)^2 =$

Foiling - solutions

1. $x^2 + 4x + 3$

2. $x^2 - x - 12$

3. $a^2 + 13a + 40$

4. $z^2 + 3z + 2$

5. $x^2 - 3x - 4$

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

7. $a^2 - 1$

8. $z^2 + 15z + 56$

9. $x^2 - 7x + 6$

10. $x^2 + 12x + 32$

11. $z^2 + z - 56$

12. $x^2 + 12x + 27$

13. $z^2 - 2z - 35$

14. $t^2 + 9t + 20$

15. $r^2 - 2r - 8$

16. $r^2 - 16r + 63$

17. $t^2 + 5t + 6$

18. $x^2 + 14x + 54$

19. $m^2 + 9m + 14$

20. $m^2 - 12m + 27$

21. $x^2 - 2x - 63$

22. $r^2 - 14r + 49$

23. $t^2 + 12t + 36$

24. $m^2 + 10m + 25$

25. $z^2 + 6z - 27$

26. $y^2 + 4y + 4$

27. $2x^2 + 7x + 3$

28. $4y^2 - 29y + 7$

29. $2x^2 - x - 3$

30. $16x^2 + 8x + 1$

31. $2x^2 - 3x - 9$

32. $4z^2 - 4z - 8$

33. $9z^2 - 1$

34. $-27x^2 + 15x + 2$

35. $-4x^2 - 10x + 6$

36. $6z^2 - z - 1$

37. $49w^2 + 14w - 8$

38. $6t^2 + 3t - 3$

39. $15m^2 + 18m + 3$

40. $12t^2 + 64t + 45$

41. $36x^2 + 36x + 9$

42. $-2x^2 - 4x + 6$

43. $-x^2 + 3x + 28$

44. $-4w^2 - 32w - 28$

45. $-9x^2 - 63x - 108$

46. $-x^2 + 25$

47. $-a^2 - 13a - 26$

48. $-7x^2 - 21x + 28$

49. $6x^2 + 12x + 6$

50. $2m^2 + 12m + 18$

51. $50a^2 + 80a + 32$

52. $-6x^2 + 12x - 6$

53. $-3y^2 - 54y - 243$

54. $-3z^2 - 96z - 64$