



Extra Practice: Simplifying Polynomials

$$1. \quad 14x + 5 + 10x + 5$$

$$9. \quad -13x^2 - 13x - 10 + 19x^2 - 19x - 5$$

$$2. \quad 19x^2 + 12x + 12 + 7x^2 + 10x + 13$$

$$10. \quad -13x^2 - 5x - 14 + 14x^2 - 20x + 8$$

$$3. \quad 4x^2 - 6x + 7 - 19x^2 - 15x - 18$$

$$11. \quad -20x^2 + 13x - 4 + 11x^2 - 13x - 10$$

$$4. \quad -14x^2 - 15x - 17 + 14x^2 + 9x - 17$$

$$12. \quad -10x^6 + 18x^3 + 13 + 7x^6 - 7x^2 + 17$$

$$5. \quad 11x^2 + 5x + 6 + 18x^2 + 17x + 17$$

$$13. \quad 4x^2 - 19x + 15 - 18x^2 + 15x + 16$$

$$6. \quad 9x^6 - 4 + 10x^5 - 15x^4 + 14$$

$$14. \quad -14x^7 + 19x^6 - 17 + 5x^5 - 10x^4 + 18$$

$$7. \quad 20x^2 + 15x + 13 - 19x^2 + 17x + 5$$

$$15. \quad -17x^6 - 6x^3 - 20x + 10x^4 + 9x^3 - 18$$

$$8. \quad 10x + 12 + 6x + 20$$

$$16. \quad 5x^6 + 9x^3 - 6x - 9x^7 - 20x^2 - 6x$$

$$17. \quad 17x^2 + 20x + 11 + 15x^2 + 11x + 17$$

$$18. \quad 20x^7 - 10x^6 - 9x^5 - 14x^4 + 18x + 6x^6 - 12x^5 - 9x^4 - 9x$$

$$19. \quad -7x^2 + 14x + 17 + 19x^2 - 6x - 20 - 14x^2 - 18x + 20 + 20x^2 + 19x + 17$$

$$20. \quad -15x^2 - 5x + 9 - 6x^2 - 19x - 16 + 15x^2 - 14x - 13 + 9x^2 - 14x + 20$$

Answers: **1.** $24x + 10$ **2.** $26x^2 + 22x + 25$ **3.** $-15x^2 - 21x - 11$ **4.** $-6x - 34$ **5.** $29x^2 + 22x + 23$ **6.** $9x^6 + 10x^5 - 15x^4 + 10$ **7.** $x^2 + 32x + 18$ **8.** $16x + 32$ **9.** $6x^2 - 32x - 15$ **10.** $x^2 - 25x - 6$ **11.** $-9x^2 - 14$ **12.** $-3x^6 + 18x^3 - 7x^2 + 30$ **13.** $-14x^2 - 4x + 31$ **14.** $-14x^7 + 19x^6 + 5x^5 - 10x^4 + 1$ **15.** $-17x^6 + 10x^4 + 3x^3 - 38$ **16.** $-9x^7 + 5x^6 + 9x^3 - 20x^2$ **17.** $32x^2 + 31x + 28$ **18.** $20x^7 - 4x^6 - 21x^5 - 23x^4 + 9x$ **19.** $18x^2 + 9x + 34$ **20.** $3x^2 - 52x$