

Name _____

Date _____

Additional Exercises 6.3
Form I
Special Products

Perform the indicated operations.

1. $(x+4)(x-3)$ 1. _____

2. $(2x-1)(x+4)$ 2. _____

3. $(3x-5)(4x+7)$ 3. _____

4. $(5-x)(7-2x)$ 4. _____

5. $(x+5)(x^2-25)$ 5. _____

6. $(a+2)(a-2)$ 6. _____

7. $(3+m)(3-m)$ 7. _____

8. $(5-7r)(5+7r)$ 8. _____

9. $\left(3x + \frac{1}{3}\right)\left(3x - \frac{1}{3}\right)$ 9. _____

10. $(x^2+1)(x^2-1)$ 10. _____

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11. $(n + 11)^2$

11. _____

12. $(w - 8)^2$

12. _____

13. $(3a - 7)^2$

13. _____

14. $\left(2x + \frac{1}{2}\right)^2$

14. _____

15. $\left(7x - \frac{1}{7}\right)^2$

15. _____

16. $(8 - 4m)^2$

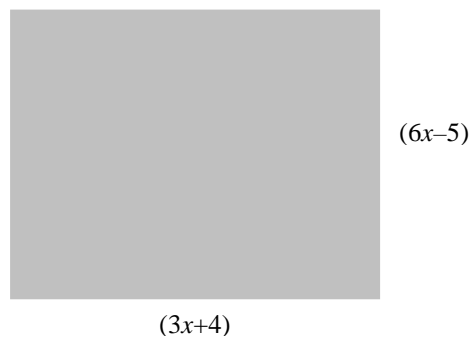
16. _____

17. $(n^3 + 9)^2$

17. _____

18. Find the area of the shaded region. Write the answer as a polynomial in descending powers of x .

18. _____

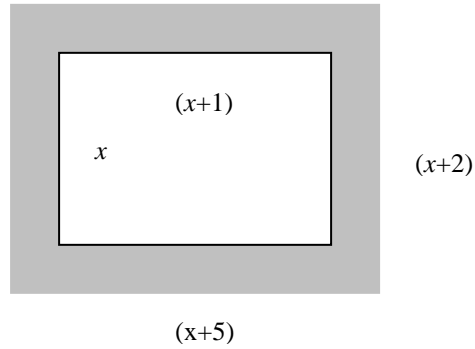


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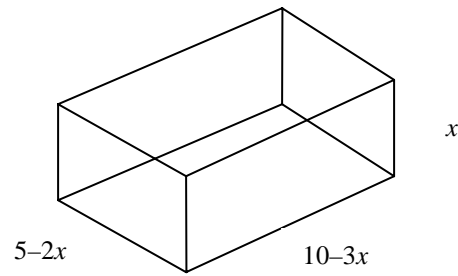
19. Find the area of the shaded region. Write the answer as a polynomial in descending powers of x .

19. _____



20. Express the volume of the box as a polynomial in standard form.

20. _____



Additional Exercises 6.3
Form II
Special Products

Perform the indicated operations.

1. $(x+2)(x+8)$ 1. _____

2. $(4x+9)(x-6)$ 2. _____

3. $(2x-8)(6x+11)$ 3. _____

4. $(7-2x)(6-4x)$ 4. _____

5. $(x+3)(x^2-9)$ 5. _____

6. $(a-1)(a+1)$ 6. _____

7. $(4+m)(4-m)$ 7. _____

8. $(3-10r)(3+10r)$ 8. _____

9. $\left(5x + \frac{1}{5}\right)\left(5x - \frac{1}{5}\right)$ 9. _____

10. $(x^2+5)(x^2-5)$ 10. _____

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11. $(n+16)^2$

11. _____

12. $(w-10)^2$

12. _____

13. $(8a-9)^2$

13. _____

14. $\left(3x + \frac{1}{3}\right)^2$

14. _____

15. $\left(5x - \frac{1}{5}\right)^2$

15. _____

16. $(11-10m)^2$

16. _____

17. $(n^3 + 12)^2$

17. _____

18. Find the area of the area of the shaded region Write the answer as a polynomial in descending powers of x .

18. _____



$(4x-10)$

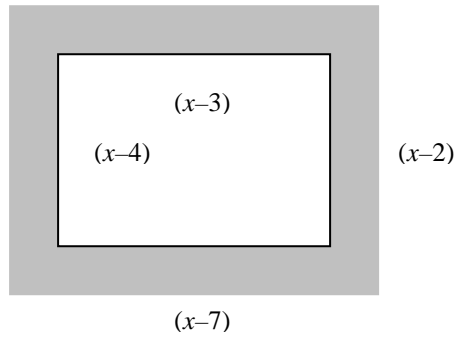
$(8x-10)$

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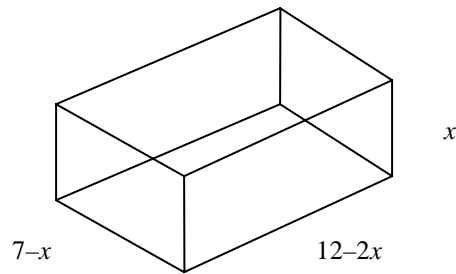
19. Find the area of the shaded region. Write the answer as a polynomial in descending powers of x .

19. _____



20. Express the volume of the box as a polynomial in standard form.

20. _____



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Additional Exercises 6.3
Form III
Special Products

Perform the indicated operations.

1. $(x+9)(x+4)$ 1. _____

2. $(5x+8)(x-7)$ 2. _____

3. $(3x-7)(4x+12)$ 3. _____

4. $(9-3x)(8-5x)$ 4. _____

5. $(x+5)(x^2-7)$ 5. _____

6. $(a-13)(a+13)$ 6. _____

7. $(7+m)(7-m)$ 7. _____

8. $(5-11r)(5+11r)$ 8. _____

9. $\left(8x + \frac{1}{8}\right)\left(8x - \frac{1}{8}\right)$ 9. _____

10. $(x^2+7)(x^2-7)$ 10. _____

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11. $(n + 21)^2$

11. _____

12. $(w - 14)^2$

12. _____

13. $(9a - 11)^2$

13. _____

14. $\left(7x + \frac{1}{7}\right)^2$

14. _____

15. $\left(9x - \frac{1}{9}\right)^2$

15. _____

16. $(12 - 8m)^2$

16. _____

17. $(n^3 + 15)^2$

17. _____

18. Find the area of the area of the rectangle Write the answer as a polynomial in descending powers of x .

18. _____



$(9x - 11)$

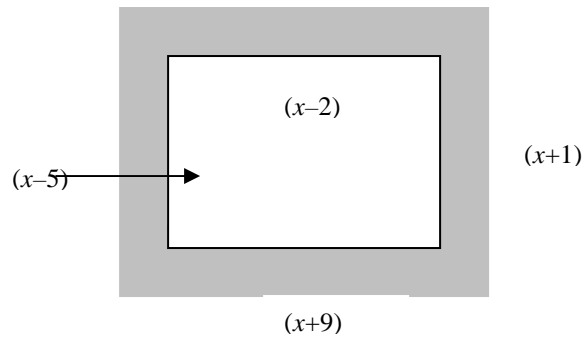
$(5x - 2)$

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19. Find the area of the shaded region. Write the answer as a polynomial in descending powers of x .

19. _____



20. Express the volume of the box as a polynomial in standard form.

20. _____

