



Simplify each expression by combining like terms.

1)  $5z - 4y^4 - 5x^5 + 7z - 14z$

2)  $15x + 8x^4 + 15y + 11x^4 + 1y + 4x$

3)  $0y^2 + 7y^2 - 10y^2 + 8y^2 - 3z$

4)  $4x^9 - 1y + 11y - 7y^5 + 0y - 9y$

5)  $9y + 3y - 14y^7 + 12 + 0y^7 - 9y$

6)  $-12x + 7z - 6y^3 - 13x + 15x - 8z$

7)  $-10 + 13y^2 - 14y - 12y^2$

8)  $-4x^9 + 4x^9 + 6y$

9)  $8y + 13x^9 + 13x^9$

10)  $-3z - 4y^7 + 8z + 15z$

11)  $13y^7 - 13 + 6z + 2z + 3z$

12)  $4x^2 + 10x^2 - 12x + 14x^2$

13)  $-5y^4 - 7y^4 + 6y^4 + 3x$

14)  $3 + 2x^3 + 6y + 15y - 2y + 1x^3$

Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

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12. \_\_\_\_\_

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13)  $-5y^4 - 7y^4 + 6y^4 + 3x$

14)  $3 + 2x^3 + 6y + 15y - 2y + 1x^3$

Answers

1.  $-2z - 4y^4 - 5x^5$

2.  $19x + 19x^4 + 16y$

3.  $5y^2 - 3z$

4.  $4x^9 + 1y - 7y^5$

5.  $3y - 14y^7 + 12$

6.  $-10x - 1z - 6y^3$

7.  $-10 + 1y^2 - 14y$

8.  $0x^9 + 6y$

9.  $8y + 26x^9$

10.  $20z - 4y^7$

11.  $13y^7 - 13 + 11z$

12.  $28x^2 - 12x$

13.  $-6y^4 + 3x$

14.  $3 + 3x^3 + 19y$