

Simplification d'Expressions (A)

Simplifiez chaque expression.

1. $7z + 8z + z$

6. $-7z + 5z + z^2$

2. $1 - 3z^2 - 8z^2$

7. $a + a + a$

3. $-8x + x^2 + x$

8. $2 + a^2 + 1$

4. $v - 8v + 9v^2$

9. $8 + a^2 + 1$

5. $-4x - 7 - 1$

10. $-1 + 1 - x^2$

Simplification d'Expressions (A) Solutions

Simplifiez chaque expression.

$$\begin{aligned} 1. \quad & 7z + 8z + z \\ & = 16z \end{aligned}$$

$$\begin{aligned} 6. \quad & -7z + 5z + z^2 \\ & = z^2 - 2z \end{aligned}$$

$$\begin{aligned} 2. \quad & 1 - 3z^2 - 8z^2 \\ & = -11z^2 + 1 \end{aligned}$$

$$\begin{aligned} 7. \quad & a + a + a \\ & = 3a \end{aligned}$$

$$\begin{aligned} 3. \quad & -8x + x^2 + x \\ & = x^2 - 7x \end{aligned}$$

$$\begin{aligned} 8. \quad & 2 + a^2 + 1 \\ & = a^2 + 3 \end{aligned}$$

$$\begin{aligned} 4. \quad & v - 8v + 9v^2 \\ & = 9v^2 - 7v \end{aligned}$$

$$\begin{aligned} 9. \quad & 8 + a^2 + 1 \\ & = a^2 + 9 \end{aligned}$$

$$\begin{aligned} 5. \quad & -4x - 7 - 1 \\ & = -4x - 8 \end{aligned}$$

$$\begin{aligned} 10. \quad & -1 + 1 - x^2 \\ & = -x^2 \end{aligned}$$

Simplification d'Expressions (B)

Simplifiez chaque expression.

1. $-z + z^2 - 9z^2$

6. $u^2 + 7u^2 + 1$

2. $c^2 + c - c^2$

7. $8b - 5 - 5b$

3. $7 + 8v^2 - 4v^2$

8. $1 + 6a + 3$

4. $-1 + 5 + v$

9. $6y^2 + 1 + 6y^2$

5. $-1 + c^2 + 8c^2$

10. $c + c^2 + c^2$

Simplification d'Expressions (B) Solutions

Simplifiez chaque expression.

$$\begin{aligned} 1. & -z + z^2 - 9z^2 \\ & = -8z^2 - z \end{aligned}$$

$$\begin{aligned} 6. & u^2 + 7u^2 + 1 \\ & = 8u^2 + 1 \end{aligned}$$

$$\begin{aligned} 2. & c^2 + c - c^2 \\ & = c \end{aligned}$$

$$\begin{aligned} 7. & 8b - 5 - 5b \\ & = 3b - 5 \end{aligned}$$

$$\begin{aligned} 3. & 7 + 8v^2 - 4v^2 \\ & = 4v^2 + 7 \end{aligned}$$

$$\begin{aligned} 8. & 1 + 6a + 3 \\ & = 6a + 4 \end{aligned}$$

$$\begin{aligned} 4. & -1 + 5 + v \\ & = v + 4 \end{aligned}$$

$$\begin{aligned} 9. & 6y^2 + 1 + 6y^2 \\ & = 12y^2 + 1 \end{aligned}$$

$$\begin{aligned} 5. & -1 + c^2 + 8c^2 \\ & = 9c^2 - 1 \end{aligned}$$

$$\begin{aligned} 10. & c + c^2 + c^2 \\ & = 2c^2 + c \end{aligned}$$

Simplification d'Expressions (C)

Simplifiez chaque expression.

1. $-10 + v + 1$

6. $z^2 - z + 4z$

2. $-1 + 9 + v^2$

7. $x + x + x^2$

3. $b^2 + 1 + b^2$

8. $1 - z^2 + 1$

4. $-y^2 - y - y$

9. $8 + 5 + y$

5. $-b^2 + 1 - 1$

10. $b^2 - 10b^2 + b$

Simplification d'Expressions (C) Solutions

Simplifiez chaque expression.

$$\begin{aligned} 1. & -10 + v + 1 \\ & = v - 9 \end{aligned}$$

$$\begin{aligned} 6. & z^2 - z + 4z \\ & = z^2 + 3z \end{aligned}$$

$$\begin{aligned} 2. & -1 + 9 + v^2 \\ & = v^2 + 8 \end{aligned}$$

$$\begin{aligned} 7. & x + x + x^2 \\ & = x^2 + 2x \end{aligned}$$

$$\begin{aligned} 3. & b^2 + 1 + b^2 \\ & = 2b^2 + 1 \end{aligned}$$

$$\begin{aligned} 8. & 1 - z^2 + 1 \\ & = -z^2 + 2 \end{aligned}$$

$$\begin{aligned} 4. & -y^2 - y - y \\ & = -y^2 - 2y \end{aligned}$$

$$\begin{aligned} 9. & 8 + 5 + y \\ & = y + 13 \end{aligned}$$

$$\begin{aligned} 5. & -b^2 + 1 - 1 \\ & = -b^2 \end{aligned}$$

$$\begin{aligned} 10. & b^2 - 10b^2 + b \\ & = -9b^2 + b \end{aligned}$$

Simplification d'Expressions (D)

Simplifiez chaque expression.

1. $z^2 - 1 + 6$

6. $1 + 2u - 4u$

2. $y + 3y^2 + 10y^2$

7. $-v^2 + v^2 - 5v^2$

3. $-b + 4 + 6b$

8. $1 + 4u^2 - u^2$

4. $-u^2 + u^2 + 4u^2$

9. $2a + 9a + a$

5. $v^2 + 2 + v^2$

10. $-y - 4y^2 + 2y^2$

Simplification d'Expressions (D) Solutions

Simplifiez chaque expression.

$$\begin{aligned} 1. \quad & z^2 - 1 + 6 \\ & = z^2 + 5 \end{aligned}$$

$$\begin{aligned} 6. \quad & 1 + 2u - 4u \\ & = -2u + 1 \end{aligned}$$

$$\begin{aligned} 2. \quad & y + 3y^2 + 10y^2 \\ & = 13y^2 + y \end{aligned}$$

$$\begin{aligned} 7. \quad & -v^2 + v^2 - 5v^2 \\ & = -5v^2 \end{aligned}$$

$$\begin{aligned} 3. \quad & -b + 4 + 6b \\ & = 5b + 4 \end{aligned}$$

$$\begin{aligned} 8. \quad & 1 + 4u^2 - u^2 \\ & = 3u^2 + 1 \end{aligned}$$

$$\begin{aligned} 4. \quad & -u^2 + u^2 + 4u^2 \\ & = 4u^2 \end{aligned}$$

$$\begin{aligned} 9. \quad & 2a + 9a + a \\ & = 12a \end{aligned}$$

$$\begin{aligned} 5. \quad & v^2 + 2 + v^2 \\ & = 2v^2 + 2 \end{aligned}$$

$$\begin{aligned} 10. \quad & -y - 4y^2 + 2y^2 \\ & = -2y^2 - y \end{aligned}$$

Simplification d'Expressions (E)

Simplifiez chaque expression.

1. $10x^2 + x + 7x^2$

6. $-5 + v + 1$

2. $10 - 3x^2 + 6x^2$

7. $a - a + 9a^2$

3. $9u^2 - 1 + 1$

8. $b + b^2 + 6b$

4. $6u^2 - u^2 + u^2$

9. $9 + v^2 - 9$

5. $1 + 1 + 7x^2$

10. $-6b^2 - b + 10b$

Simplification d'Expressions (E) Solutions

Simplifiez chaque expression.

$$\begin{aligned} 1. \quad & 10x^2 + x + 7x^2 \\ & = 17x^2 + x \end{aligned}$$

$$\begin{aligned} 6. \quad & -5 + v + 1 \\ & = v - 4 \end{aligned}$$

$$\begin{aligned} 2. \quad & 10 - 3x^2 + 6x^2 \\ & = 3x^2 + 10 \end{aligned}$$

$$\begin{aligned} 7. \quad & a - a + 9a^2 \\ & = 9a^2 \end{aligned}$$

$$\begin{aligned} 3. \quad & 9u^2 - 1 + 1 \\ & = 9u^2 \end{aligned}$$

$$\begin{aligned} 8. \quad & b + b^2 + 6b \\ & = b^2 + 7b \end{aligned}$$

$$\begin{aligned} 4. \quad & 6u^2 - u^2 + u^2 \\ & = 6u^2 \end{aligned}$$

$$\begin{aligned} 9. \quad & 9 + v^2 - 9 \\ & = v^2 \end{aligned}$$

$$\begin{aligned} 5. \quad & 1 + 1 + 7x^2 \\ & = 7x^2 + 2 \end{aligned}$$

$$\begin{aligned} 10. \quad & -6b^2 - b + 10b \\ & = -6b^2 + 9b \end{aligned}$$

Simplification d'Expressions (F)

Simplifiez chaque expression.

1. $-2x + 1 + 1$

6. $2u + 9u + 4u$

2. $-a - a + 1$

7. $10u^2 + 2u - 6u^2$

3. $8u + u + 6$

8. $v + 1 + v$

4. $-1 - v + 1$

9. $-8v^2 + 4 - 1$

5. $10u^2 - u^2 + 9u$

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

Simplification d'Expressions (F) Solutions

Simplifiez chaque expression.

$$\begin{aligned} 1. & -2x + 1 + 1 \\ & = -2x + 2 \end{aligned}$$

$$\begin{aligned} 6. & 2u + 9u + 4u \\ & = 15u \end{aligned}$$

$$\begin{aligned} 2. & -a - a + 1 \\ & = -2a + 1 \end{aligned}$$

$$\begin{aligned} 7. & 10u^2 + 2u - 6u^2 \\ & = 4u^2 + 2u \end{aligned}$$

$$\begin{aligned} 3. & 8u + u + 6 \\ & = 9u + 6 \end{aligned}$$

$$\begin{aligned} 8. & v + 1 + v \\ & = 2v + 1 \end{aligned}$$

$$\begin{aligned} 4. & -1 - v + 1 \\ & = -v \end{aligned}$$

$$\begin{aligned} 9. & -8v^2 + 4 - 1 \\ & = -8v^2 + 3 \end{aligned}$$

$$\begin{aligned} 5. & 10u^2 - u^2 + 9u \\ & = 9u^2 + 9u \end{aligned}$$

$$\begin{aligned} 10. & -x^2 + 2x + 6x \\ & = -x^2 + 8x \end{aligned}$$

Simplification d'Expressions (G)

Simplifiez chaque expression.

1. $b + 2b - b^2$

6. $-v - v - 7v^2$

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

7. $x^2 + x^2 - 8$

3. $8 + 7x - x$

8. $b + b + b^2$

4. $-1 - a + 4$

9. $-b^2 + 2 + 9b^2$

5. $-z^2 + 4z^2 + z^2$

10. $1 - 2a^2 + 2$

Simplification d'Expressions (G) Solutions

Simplifiez chaque expression.

$$\begin{aligned} 1. & \quad b + 2b - b^2 \\ & = -b^2 + 3b \end{aligned}$$

$$\begin{aligned} 6. & \quad -v - v - 7v^2 \\ & = -7v^2 - 2v \end{aligned}$$

$$\begin{aligned} 2. & \quad -x^2 + x + 4x^2 \\ & = 3x^2 + x \end{aligned}$$

$$\begin{aligned} 7. & \quad x^2 + x^2 - 8 \\ & = 2x^2 - 8 \end{aligned}$$

$$\begin{aligned} 3. & \quad 8 + 7x - x \\ & = 6x + 8 \end{aligned}$$

$$\begin{aligned} 8. & \quad b + b + b^2 \\ & = b^2 + 2b \end{aligned}$$

$$\begin{aligned} 4. & \quad -1 - a + 4 \\ & = -a + 3 \end{aligned}$$

$$\begin{aligned} 9. & \quad -b^2 + 2 + 9b^2 \\ & = 8b^2 + 2 \end{aligned}$$

$$\begin{aligned} 5. & \quad -z^2 + 4z^2 + z^2 \\ & = 4z^2 \end{aligned}$$

$$\begin{aligned} 10. & \quad 1 - 2a^2 + 2 \\ & = -2a^2 + 3 \end{aligned}$$

Simplification d'Expressions (H)

Simplifiez chaque expression.

1. $-b^2 + b^2 + b^2$

6. $v + 1 - 1$

2. $10y + y + 1$

7. $-4z^2 + 7z + z^2$

3. $-u^2 + u + 6u$

8. $-1 + 7v^2 - 1$

4. $x^2 + x^2 + x$

9. $5c - 9c + 5c^2$

5. $y^2 + 8y^2 + y^2$

10. $7b^2 - 4b + 10b$

Simplification d'Expressions (H) Solutions

Simplifiez chaque expression.

$$1. -b^2 + b^2 + b^2 \\ = b^2$$

$$6. v + 1 - 1 \\ = v$$

$$2. 10y + y + 1 \\ = 11y + 1$$

$$7. -4z^2 + 7z + z^2 \\ = -3z^2 + 7z$$

$$3. -u^2 + u + 6u \\ = -u^2 + 7u$$

$$8. -1 + 7v^2 - 1 \\ = 7v^2 - 2$$

$$4. x^2 + x^2 + x \\ = 2x^2 + x$$

$$9. 5c - 9c + 5c^2 \\ = 5c^2 - 4c$$

$$5. y^2 + 8y^2 + y^2 \\ = 10y^2$$

$$10. 7b^2 - 4b + 10b \\ = 7b^2 + 6b$$

Simplification d'Expressions (I)

Simplifiez chaque expression.

1. $-8c + 2c^2 - c$

6. $3c^2 + 3 + 8c^2$

2. $6 - 2 + 7z^2$

7. $c^2 + c + c^2$

3. $b^2 - b + 10b$

8. $3x - x^2 - 7x$

4. $b + 7b^2 - 7b^2$

9. $v + v - v^2$

5. $1 - 2 + c^2$

10. $-9 - 9c - 1$

Simplification d'Expressions (I) Solutions

Simplifiez chaque expression.

$$\begin{aligned} 1. & -8c + 2c^2 - c \\ & = 2c^2 - 9c \end{aligned}$$

$$\begin{aligned} 6. & 3c^2 + 3 + 8c^2 \\ & = 11c^2 + 3 \end{aligned}$$

$$\begin{aligned} 2. & 6 - 2 + 7z^2 \\ & = 7z^2 + 4 \end{aligned}$$

$$\begin{aligned} 7. & c^2 + c + c^2 \\ & = 2c^2 + c \end{aligned}$$

$$\begin{aligned} 3. & b^2 - b + 10b \\ & = b^2 + 9b \end{aligned}$$

$$\begin{aligned} 8. & 3x - x^2 - 7x \\ & = -x^2 - 4x \end{aligned}$$

$$\begin{aligned} 4. & b + 7b^2 - 7b^2 \\ & = b \end{aligned}$$

$$\begin{aligned} 9. & v + v - v^2 \\ & = -v^2 + 2v \end{aligned}$$

$$\begin{aligned} 5. & 1 - 2 + c^2 \\ & = c^2 - 1 \end{aligned}$$

$$\begin{aligned} 10. & -9 - 9c - 1 \\ & = -9c - 10 \end{aligned}$$

Simplification d'Expressions (J)

Simplifiez chaque expression.

1. $1 - 3 + c$

6. $1 - a + 8$

2. $4v - 1 + 1$

7. $z^2 - 9z + 10z$

3. $c + 6c - c^2$

8. $1 - z + 6z$

4. $3v + 6v + 1$

9. $u^2 + 2u^2 - 1$

5. $-1 + 1 - 10b$

10. $3y + 9 + 1$

Simplification d'Expressions (J) Solutions

Simplifiez chaque expression.

$$\begin{aligned} 1. \quad & 1 - 3 + c \\ & = c - 2 \end{aligned}$$

$$\begin{aligned} 6. \quad & 1 - a + 8 \\ & = -a + 9 \end{aligned}$$

$$\begin{aligned} 2. \quad & 4v - 1 + 1 \\ & = 4v \end{aligned}$$

$$\begin{aligned} 7. \quad & z^2 - 9z + 10z \\ & = z^2 + z \end{aligned}$$

$$\begin{aligned} 3. \quad & c + 6c - c^2 \\ & = -c^2 + 7c \end{aligned}$$

$$\begin{aligned} 8. \quad & 1 - z + 6z \\ & = 5z + 1 \end{aligned}$$

$$\begin{aligned} 4. \quad & 3v + 6v + 1 \\ & = 9v + 1 \end{aligned}$$

$$\begin{aligned} 9. \quad & u^2 + 2u^2 - 1 \\ & = 3u^2 - 1 \end{aligned}$$

$$\begin{aligned} 5. \quad & -1 + 1 - 10b \\ & = -10b \end{aligned}$$

$$\begin{aligned} 10. \quad & 3y + 9 + 1 \\ & = 3y + 10 \end{aligned}$$