

Simplificar Expresiones (A)

Simplifique cada expresión.

1. $8a^2 - 2 + 5 + 10a + 9 + 7$

6. $7 + 5v - 1 + 4v - 10a + 1$

2. $v^2 + uv + 4 + u + 10u + 6$

7. $2 - b^2 + b - 3y^2 - by + by$

3. $b^2 + b - 1 - 8 + 2 + 7b$

8. $ax + 4a + a + 4x^2 + 6ax - 5$

4. $9u + 6u + 1 - 7b^2 - 3b + 8b$

9. $vx - 5 - vx + v + x + 8$

5. $-10 + 1 - 9x + 6 - 8xz + x$

10. $-y + 9c + 9 + 10c + 9 - 1$

Simplificar Expresiones (A) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & 8a^2 - 2 + 5 + 10a + 9 + 7 \\ & = 8a^2 + 10a + 19 \end{aligned}$$

$$\begin{aligned} 6. & 7 + 5v - 1 + 4v - 10a + 1 \\ & = 9v - 10a + 7 \end{aligned}$$

$$\begin{aligned} 2. & v^2 + uv + 4 + u + 10u + 6 \\ & = v^2 + uv + 11u + 10 \end{aligned}$$

$$\begin{aligned} 7. & 2 - b^2 + b - 3y^2 - by + by \\ & = -b^2 - 3y^2 + b + 2 \end{aligned}$$

$$\begin{aligned} 3. & b^2 + b - 1 - 8 + 2 + 7b \\ & = b^2 + 8b - 7 \end{aligned}$$

$$\begin{aligned} 8. & ax + 4a + a + 4x^2 + 6ax - 5 \\ & = 7ax + 4x^2 + 5a - 5 \end{aligned}$$

$$\begin{aligned} 4. & 9u + 6u + 1 - 7b^2 - 3b + 8b \\ & = -7b^2 + 15u + 5b + 1 \end{aligned}$$

$$\begin{aligned} 9. & vx - 5 - vx + v + x + 8 \\ & = v + x + 3 \end{aligned}$$

$$\begin{aligned} 5. & -10 + 1 - 9x + 6 - 8xz + x \\ & = -8xz - 8x - 3 \end{aligned}$$

$$\begin{aligned} 10. & -y + 9c + 9 + 10c + 9 - 1 \\ & = -y + 19c + 17 \end{aligned}$$

Simplificar Expresiones (B)

Simplifique cada expresión.

1. $v^2 + 10v^2 - 4vz - 5z - 1 + 7$

6. $9 + 9 - c + 10 + bc + 5b^2$

2. $-1 + 8 + 2 + c + 1 + 4$

7. $9u + u + 8u - u + 1 + 10u^2$

3. $y + 3y + 3y + 1 + 10y^2 - 10y$

8. $4a + 6b^2 - 3ab + a + 5b + a^2$

4. $y^2 + 1 + 7a^2 - 9ay + 2a^2 + a$

9. $-x^2 + x - 1 + 10x^2 + 4b^2 + 10bx$

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

10. $-1 - v - 1 + 1 + 1 + 1$

Simplificar Expresiones (B) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & v^2 + 10v^2 - 4vz - 5z - 1 + 7 \\ & = 11v^2 - 4vz - 5z + 6 \end{aligned}$$

$$\begin{aligned} 6. & 9 + 9 - c + 10 + bc + 5b^2 \\ & = bc + 5b^2 - c + 28 \end{aligned}$$

$$\begin{aligned} 2. & -1 + 8 + 2 + c + 1 + 4 \\ & = c + 14 \end{aligned}$$

$$\begin{aligned} 7. & 9u + u + 8u - u + 1 + 10u^2 \\ & = 10u^2 + 17u + 1 \end{aligned}$$

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

$$\begin{aligned} 8. & 4a + 6b^2 - 3ab + a + 5b + a^2 \\ & = 6b^2 - 3ab + a^2 + 5a + 5b \end{aligned}$$

$$\begin{aligned} 4. & y^2 + 1 + 7a^2 - 9ay + 2a^2 + a \\ & = y^2 + 9a^2 - 9ay + a + 1 \end{aligned}$$

$$\begin{aligned} 9. & -x^2 + x - 1 + 10x^2 + 4b^2 + 10bx \\ & = 9x^2 + 4b^2 + 10bx + x - 1 \end{aligned}$$

$$\begin{aligned} 5. & -u + 6u^2 - 3 + u - 6u^2 - u \\ & = -u - 3 \end{aligned}$$

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

Simplificar Expresiones (C)

Simplifique cada expresión.

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

6. $c - c + 3cz + c^2 + z + 5c$

2. $b^2 + b + 10b + 8b + b^2 - 2$

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

3. $-4y^2 - 1 + 4y^2 + y + 6y + y^2$

8. $1 + ab + 1 + 1 + 4b + 8a^2$

4. $6a^2 + 8ac + 8 - c^2 + 5 + 1$

9. $1 - 1 - 9a^2 + 5a^2 - a^2 - 6$

5. $1 + v + 10u + 6 - uv + 1$

10. $1 + 2v^2 - 1 + av - 9 + 7a$

Simplificar Expresiones (C) Respuestas

Simplifique cada expresión.

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

$$\begin{aligned} 6. & c - c + 3cz + c^2 + z + 5c \\ & = 3cz + c^2 + 5c + z \end{aligned}$$

$$\begin{aligned} 2. & b^2 + b + 10b + 8b + b^2 - 2 \\ & = 2b^2 + 19b - 2 \end{aligned}$$

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

$$\begin{aligned} 3. & -4y^2 - 1 + 4y^2 + y + 6y + y^2 \\ & = y^2 + 7y - 1 \end{aligned}$$

$$\begin{aligned} 8. & 1 + ab + 1 + 1 + 4b + 8a^2 \\ & = ab + 8a^2 + 4b + 3 \end{aligned}$$

$$\begin{aligned} 4. & 6a^2 + 8ac + 8 - c^2 + 5 + 1 \\ & = 6a^2 + 8ac - c^2 + 14 \end{aligned}$$

$$\begin{aligned} 9. & 1 - 1 - 9a^2 + 5a^2 - a^2 - 6 \\ & = -5a^2 - 6 \end{aligned}$$

$$\begin{aligned} 5. & 1 + v + 10u + 6 - uv + 1 \\ & = -uv + v + 10u + 8 \end{aligned}$$

$$\begin{aligned} 10. & 1 + 2v^2 - 1 + av - 9 + 7a \\ & = 2v^2 + av + 7a - 9 \end{aligned}$$

Simplificar Expresiones (D)

Simplifique cada expresión.

1. $7c + 7v - 8 - 3cv + 6 + v$

6. $-v + 1 + a - 10a - av + 2a^2$

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

7. $-a + 10a^2 + 4a + a^2 - 8a + a^2$

3. $1 - 1 + 9 + 3cx + c^2 + c$

8. $b - 7by + b + 7y - 9 + by$

4. $1 - 1 - bc + b^2 - c + 2$

9. $2c^2 - 9 - 8 - 9 + 6 - 6c$

5. $-8c + 5c^2 - 5v - 1 + 4v^2 - v^2$

10. $8a^2 - 2a + 10 + 8 + 7 + a^2$

Simplificar Expresiones (D) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & 7c + 7v - 8 - 3cv + 6 + v \\ & = -3cv + 7c + 8v - 2 \end{aligned}$$

$$\begin{aligned} 6. & -v + 1 + a - 10a - av + 2a^2 \\ & = -av + 2a^2 - v - 9a + 1 \end{aligned}$$

$$\begin{aligned} 2. & 5 - 2y + y - 9y - 9y - y^2 \\ & = -y^2 - 19y + 5 \end{aligned}$$

$$\begin{aligned} 7. & -a + 10a^2 + 4a + a^2 - 8a + a^2 \\ & = 12a^2 - 5a \end{aligned}$$

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

$$\begin{aligned} 8. & b - 7by + b + 7y - 9 + by \\ & = -6by + 2b + 7y - 9 \end{aligned}$$

$$\begin{aligned} 4. & 1 - 1 - bc + b^2 - c + 2 \\ & = -bc + b^2 - c + 2 \end{aligned}$$

$$\begin{aligned} 9. & 2c^2 - 9 - 8 - 9 + 6 - 6c \\ & = 2c^2 - 6c - 20 \end{aligned}$$

$$\begin{aligned} 5. & -8c + 5c^2 - 5v - 1 + 4v^2 - v^2 \\ & = 5c^2 + 3v^2 - 8c - 5v - 1 \end{aligned}$$

$$\begin{aligned} 10. & 8a^2 - 2a + 10 + 8 + 7 + a^2 \\ & = 9a^2 - 2a + 25 \end{aligned}$$

Simplificar Expresiones (E)

Simplifique cada expresión.

1. $b + 10bx - 1 - 5b^2 + bx + 1$

6. $u - uz - 9u + 7z + 1 - 1$

2. $6u + 4u^2 - bu - b - 3u - 1$

7. $10xz + z - 8 + 2xz + 1 + 1$

3. $4xz + z - 1 + 1 + z - 1$

8. $b + 10b^2 + b - 8 + 8b - 3b$

4. $cx - 1 - 3cx - 5 + 1 + 1$

9. $-v - 1 + uv - 8v + 1 - 10$

5. $-3 - 3uv - 1 + 10uv + 1 - 9$

10. $-3v - 1 - 1 + v^2 - 1 + vx$

Simplificar Expresiones (E) Respuestas

Simplifique cada expresión.

$$1. \quad b + 10bx - 1 - 5b^2 + bx + 1 \\ = 11bx - 5b^2 + b$$

$$6. \quad u - uz - 9u + 7z + 1 - 1 \\ = -uz - 8u + 7z$$

$$2. \quad 6u + 4u^2 - bu - b - 3u - 1 \\ = 4u^2 - bu + 3u - b - 1$$

$$7. \quad 10xz + z - 8 + 2xz + 1 + 1 \\ = 12xz + z - 6$$

$$3. \quad 4xz + z - 1 + 1 + z - 1 \\ = 4xz + 2z - 1$$

$$8. \quad b + 10b^2 + b - 8 + 8b - 3b \\ = 10b^2 + 7b - 8$$

$$4. \quad cx - 1 - 3cx - 5 + 1 + 1 \\ = -2cx - 4$$

$$9. \quad -v - 1 + uv - 8v + 1 - 10 \\ = uv - 9v - 10$$

$$5. \quad -3 - 3uv - 1 + 10uv + 1 - 9 \\ = 7uv - 12$$

$$10. \quad -3v - 1 - 1 + v^2 - 1 + vx \\ = v^2 + vx - 3v - 3$$

Simplificar Expresiones (F)

Simplifique cada expresión.

1. $5 - b - 6 - 8b^2 + 1 + b^2$

6. $1 - 1 + 6x + ax - 2x - 5x^2$

2. $3y + 6 + 1 + v^2 + 1 - 10y$

7. $-6y^2 - 7yz - y + 9 - 1 + z$

3. $6c + 2 + c^2 + 3 - 1 - 1$

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

4. $-10z + 10az + 8a + 2z + 7z + a$

9. $-6z^2 + 4z - 6a^2 + 10a + 3z^2 + 1$

5. $-6bc - b + 4bc + 1 - 9b^2 + 6c^2$

10. $-6 - 7 - b - x - 1 - 9$

Simplificar Expresiones (F) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. \quad & 5 - b - 6 - 8b^2 + 1 + b^2 \\ & = -7b^2 - b \end{aligned}$$

$$\begin{aligned} 6. \quad & 1 - 1 + 6x + ax - 2x - 5x^2 \\ & = ax - 5x^2 + 4x \end{aligned}$$

$$\begin{aligned} 2. \quad & 3y + 6 + 1 + v^2 + 1 - 10y \\ & = v^2 - 7y + 8 \end{aligned}$$

$$\begin{aligned} 7. \quad & -6y^2 - 7yz - y + 9 - 1 + z \\ & = -6y^2 - 7yz - y + z + 8 \end{aligned}$$

$$\begin{aligned} 3. \quad & 6c + 2 + c^2 + 3 - 1 - 1 \\ & = c^2 + 6c + 3 \end{aligned}$$

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

$$\begin{aligned} 4. \quad & -10z + 10az + 8a + 2z + 7z + a \\ & = 10az - z + 9a \end{aligned}$$

$$\begin{aligned} 9. \quad & -6z^2 + 4z - 6a^2 + 10a + 3z^2 + 1 \\ & = -3z^2 - 6a^2 + 4z + 10a + 1 \end{aligned}$$

$$\begin{aligned} 5. \quad & -6bc - b + 4bc + 1 - 9b^2 + 6c^2 \\ & = -2bc - 9b^2 + 6c^2 - b + 1 \end{aligned}$$

$$\begin{aligned} 10. \quad & -6 - 7 - b - x - 1 - 9 \\ & = -b - x - 23 \end{aligned}$$

Simplificar Expresiones (G)

Simplifique cada expresión.

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

6. $y^2 + 8y + 7y + y - 1 - y^2$

2. $x + 1 + x + 10a + 5ax + ax$

7. $2ab + 1 - 9 + 6ab + b^2 + 6b$

3. $7u + 8 - u^2 + au + u - 1$

8. $bx + 7x - b + bx + 8b^2 + 3$

4. $6 + 1 + 9bz + b^2 + bz + z^2$

9. $1 + v^2 - 7 - v^2 + v^2 + v$

5. $7v^2 + 4b + bv - 2v - v + 1$

10. $6a^2 + 7a - 1 + 8ac + c^2 + 1$

Simplificar Expresiones (G) Respuestas

Simplifique cada expresión.

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

$$\begin{aligned} 6. & y^2 + 8y + 7y + y - 1 - y^2 \\ & = 16y - 1 \end{aligned}$$

$$\begin{aligned} 2. & x + 1 + x + 10a + 5ax + ax \\ & = 6ax + 2x + 10a + 1 \end{aligned}$$

$$\begin{aligned} 7. & 2ab + 1 - 9 + 6ab + b^2 + 6b \\ & = 8ab + b^2 + 6b - 8 \end{aligned}$$

$$\begin{aligned} 3. & 7u + 8 - u^2 + au + u - 1 \\ & = -u^2 + au + 8u + 7 \end{aligned}$$

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

$$\begin{aligned} 4. & 6 + 1 + 9bz + b^2 + bz + z^2 \\ & = 10bz + b^2 + z^2 + 7 \end{aligned}$$

$$\begin{aligned} 9. & 1 + v^2 - 7 - v^2 + v^2 + v \\ & = v^2 + v - 6 \end{aligned}$$

$$\begin{aligned} 5. & 7v^2 + 4b + bv - 2v - v + 1 \\ & = 7v^2 + bv + 4b - 3v + 1 \end{aligned}$$

$$\begin{aligned} 10. & 6a^2 + 7a - 1 + 8ac + c^2 + 1 \\ & = 6a^2 + 8ac + c^2 + 7a \end{aligned}$$

Simplificar Expresiones (H)

Simplifique cada expresión.

1. $6 + 1 + u^2 + 1 + 10u + u^2$

6. $-5 - u - 1 - 3x + 1 + u^2$

2. $1 - c + 3c^2 - 6c - c^2 - c$

7. $-5y - yz + 4 + 1 + z^2 + 3$

3. $9b^2 - 9v + v + b - b + bv$

8. $2y - xy - 1 - 9y^2 + x - x$

4. $9a - 1 + 4a^2 + 10 + c - c^2$

9. $1 - b - 3b + v + 6bv + 2bv$

5. $-a - 2a^2 + 3a^2 + 7a - 10a^2 + 3a^2$

10. $-a + 9 - 8v^2 - 8 - av - 8a$

Simplificar Expresiones (H) Respuestas

Simplifique cada expresión.

$$1. \quad 6 + 1 + u^2 + 1 + 10u + u^2 \\ = 2u^2 + 10u + 8$$

$$6. \quad -5 - u - 1 - 3x + 1 + u^2 \\ = u^2 - u - 3x - 5$$

$$2. \quad 1 - c + 3c^2 - 6c - c^2 - c \\ = 2c^2 - 8c + 1$$

$$7. \quad -5y - yz + 4 + 1 + z^2 + 3 \\ = -yz + z^2 - 5y + 8$$

$$3. \quad 9b^2 - 9v + v + b - b + bv \\ = 9b^2 + bv - 8v$$

$$8. \quad 2y - xy - 1 - 9y^2 + x - x \\ = -xy - 9y^2 + 2y - 1$$

$$4. \quad 9a - 1 + 4a^2 + 10 + c - c^2 \\ = 4a^2 - c^2 + 9a + c + 9$$

$$9. \quad 1 - b - 3b + v + 6bv + 2bv \\ = 8bv - 4b + v + 1$$

$$5. \quad -a - 2a^2 + 3a^2 + 7a - 10a^2 + 3a^2 \\ = -6a^2 + 6a$$

$$10. \quad -a + 9 - 8v^2 - 8 - av - 8a \\ = -8v^2 - av - 9a + 1$$

Simplificar Expresiones (I)

Simplifique cada expresión.

1. $1 + b^2 - 4 + 5 - 3 - 4a$

6. $1 + 1 + 1 + 1 + b^2 - 5$

2. $9 - 3ac + c + a^2 - 7 - 1$

7. $-c^2 + 4c + 1 - 1 - 10 + 6x^2$

3. $1 - 8b + 1 + b + b + 10bz$

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

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

9. $1 + c^2 - 1 + 2 + 9y^2 + 3$

5. $3 - c + cy + 3c^2 + y^2 - 9$

10. $1 + 1 - y^2 + 4y - y^2 + y$

Simplificar Expresiones (I) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. \quad & 1 + b^2 - 4 + 5 - 3 - 4a \\ & = b^2 - 4a - 1 \end{aligned}$$

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

$$\begin{aligned} 2. \quad & 9 - 3ac + c + a^2 - 7 - 1 \\ & = -3ac + a^2 + c + 1 \end{aligned}$$

$$\begin{aligned} 7. \quad & -c^2 + 4c + 1 - 1 - 10 + 6x^2 \\ & = -c^2 + 6x^2 + 4c - 10 \end{aligned}$$

$$\begin{aligned} 3. \quad & 1 - 8b + 1 + b + b + 10bz \\ & = 10bz - 6b + 2 \end{aligned}$$

$$\begin{aligned} 8. \quad & v^2 + 9v + 1 + v^2 - 8 + v \\ & = 2v^2 + 10v - 7 \end{aligned}$$

$$\begin{aligned} 4. \quad & -b^2 + 9 + 1 + 1 + 8 - 1 \\ & = -b^2 + 18 \end{aligned}$$

$$\begin{aligned} 9. \quad & 1 + c^2 - 1 + 2 + 9y^2 + 3 \\ & = c^2 + 9y^2 + 5 \end{aligned}$$

$$\begin{aligned} 5. \quad & 3 - c + cy + 3c^2 + y^2 - 9 \\ & = cy + 3c^2 + y^2 - c - 6 \end{aligned}$$

$$\begin{aligned} 10. \quad & 1 + 1 - y^2 + 4y - y^2 + y \\ & = -2y^2 + 5y + 2 \end{aligned}$$

Simplificar Expresiones (J)

Simplifique cada expresión.

1. $-bu + u + 1 + 2b + 6u + 10b$

6. $4u^2 - 3v^2 + 7 + 10uv + 1 - 2$

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

7. $8c + c - 7c^2 - c + 3c^2 - 1$

3. $x + 10 + ax + 1 + 10ax + 1$

8. $10a + 1 + 9 + 4a - 2a + a^2$

4. $9a - 1 - 10 - 4x^2 + 4x^2 - 4a^2$

9. $3y + a + 6 + 1 + 1 + y$

5. $-y^2 + 6y^2 - 10u + 6u + u + 9u$

10. $2 + z + az + 6z + a + 2a$

Simplificar Expresiones (J) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & -bu + u + 1 + 2b + 6u + 10b \\ & = -bu + 7u + 12b + 1 \end{aligned}$$

$$\begin{aligned} 6. & 4u^2 - 3v^2 + 7 + 10uv + 1 - 2 \\ & = 4u^2 - 3v^2 + 10uv + 6 \end{aligned}$$

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

$$\begin{aligned} 7. & 8c + c - 7c^2 - c + 3c^2 - 1 \\ & = -4c^2 + 8c - 1 \end{aligned}$$

$$\begin{aligned} 3. & x + 10 + ax + 1 + 10ax + 1 \\ & = 11ax + x + 12 \end{aligned}$$

$$\begin{aligned} 8. & 10a + 1 + 9 + 4a - 2a + a^2 \\ & = a^2 + 12a + 10 \end{aligned}$$

$$\begin{aligned} 4. & 9a - 1 - 10 - 4x^2 + 4x^2 - 4a^2 \\ & = -4a^2 + 9a - 11 \end{aligned}$$

$$\begin{aligned} 9. & 3y + a + 6 + 1 + 1 + y \\ & = 4y + a + 8 \end{aligned}$$

$$\begin{aligned} 5. & -y^2 + 6y^2 - 10u + 6u + u + 9u \\ & = 5y^2 + 6u \end{aligned}$$

$$\begin{aligned} 10. & 2 + z + az + 6z + a + 2a \\ & = az + 7z + 3a + 2 \end{aligned}$$