

Simplificar Expresiones (A)

Simplifique cada expresión.

1. $-3cy + c + 9c + 10 - 4c$

6. $8 + 1 - 4x^2 + 9 + 10$

2. $-y - 5 - y + 6y^2 - 8c^2$

7. $-xy + 7y^2 + x - 5xy + 4xy$

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

8. $8y + y^2 + 2 + y - xy$

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

9. $1 - x + 6x + ax - x$

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

10. $-6c + 7c - 8c - c + 9c^2$

Simplificar Expresiones (A) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & -3cy + c + 9c + 10 - 4c \\ & = -3cy + 6c + 10 \end{aligned}$$

$$\begin{aligned} 6. & 8 + 1 - 4x^2 + 9 + 10 \\ & = -4x^2 + 28 \end{aligned}$$

$$\begin{aligned} 2. & -y - 5 - y + 6y^2 - 8c^2 \\ & = 6y^2 - 8c^2 - 2y - 5 \end{aligned}$$

$$\begin{aligned} 7. & -xy + 7y^2 + x - 5xy + 4xy \\ & = -2xy + 7y^2 + x \end{aligned}$$

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

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

$$\begin{aligned} 4. & y + 5y^2 + 8 + x + 5 \\ & = 5y^2 + y + x + 13 \end{aligned}$$

$$\begin{aligned} 9. & 1 - x + 6x + ax - x \\ & = ax + 4x + 1 \end{aligned}$$

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

$$\begin{aligned} 10. & -6c + 7c - 8c - c + 9c^2 \\ & = 9c^2 - 8c \end{aligned}$$

Simplificar Expresiones (B)

Simplifique cada expresión.

1. $-x^2 + 1 - 4 + 1 - 2$

6. $8u + u - v + uv + 1$

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

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

3. $1 - z^2 + 6 - 9y + z^2$

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

4. $-y - 2y + yz + z^2 - y$

9. $-5c + c + c^2 - 1 + c^2$

5. $av + 1 + 7 + a + a$

10. $-3 + v + 6v + 2 + 9v$

Simplificar Expresiones (B) Respuestas

Simplifique cada expresión.

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

$$\begin{aligned} 6. & 8u + u - v + uv + 1 \\ & = uv + 9u - v + 1 \end{aligned}$$

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

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

$$\begin{aligned} 3. & 1 - z^2 + 6 - 9y + z^2 \\ & = -9y + 7 \end{aligned}$$

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

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

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

$$\begin{aligned} 5. & av + 1 + 7 + a + a \\ & = av + 2a + 8 \end{aligned}$$

$$\begin{aligned} 10. & -3 + v + 6v + 2 + 9v \\ & = 16v - 1 \end{aligned}$$

Simplificar Expresiones (C)

Simplifique cada expresión.

1. $y^2 + 9y^2 + y + 3u + 5$

6. $y + 10 - 1 + 7uy - uy$

2. $a^2 + 6au + 1 + a^2 + 9$

7. $yz + z - z + 5z + z$

3. $-3 + 8y^2 + 3y^2 - 4 - 1$

8. $z + 3az + 4 + 1 + z^2$

4. $-b - a + 6 - ab + ab$

9. $1 - 3a - ac - ac - 10$

5. $-v^2 - v + vy + 6y - v^2$

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

Simplificar Expresiones (C) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & y^2 + 9y^2 + y + 3u + 5 \\ & = 10y^2 + y + 3u + 5 \end{aligned}$$

$$\begin{aligned} 6. & y + 10 - 1 + 7uy - uy \\ & = 6uy + y + 9 \end{aligned}$$

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

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

$$\begin{aligned} 3. & -3 + 8y^2 + 3y^2 - 4 - 1 \\ & = 11y^2 - 8 \end{aligned}$$

$$\begin{aligned} 8. & z + 3az + 4 + 1 + z^2 \\ & = 3az + z^2 + z + 5 \end{aligned}$$

$$\begin{aligned} 4. & -b - a + 6 - ab + ab \\ & = -b - a + 6 \end{aligned}$$

$$\begin{aligned} 9. & 1 - 3a - ac - ac - 10 \\ & = -2ac - 3a - 9 \end{aligned}$$

$$\begin{aligned} 5. & -v^2 - v + vy + 6y - v^2 \\ & = -2v^2 + vy - v + 6y \end{aligned}$$

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

Simplificar Expresiones (D)

Simplifique cada expresión.

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

6. $1 - 1 + c + 4cu - 8$

2. $z - 1 + z + 1 - 5xz$

7. $1 - a + 1 + 1 + 6a$

3. $6 + 3cu + 8cu + 1 - u$

8. $1 + x + 8x^2 + 1 + y^2$

4. $c - z - 7c^2 + 6c + cz$

9. $5u - 8u^2 + 8u^2 + 1 - u$

5. $7au + 9 + 7a^2 + 2u + 4au$

10. $-u - 6au + 7 + 1 + au$

Simplificar Expresiones (D) Respuestas

Simplifique cada expresión.

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

$$\begin{aligned} 6. & 1 - 1 + c + 4cu - 8 \\ & = 4cu + c - 8 \end{aligned}$$

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

$$\begin{aligned} 7. & 1 - a + 1 + 1 + 6a \\ & = 5a + 3 \end{aligned}$$

$$\begin{aligned} 3. & 6 + 3cu + 8cu + 1 - u \\ & = 11cu - u + 7 \end{aligned}$$

$$\begin{aligned} 8. & 1 + x + 8x^2 + 1 + y^2 \\ & = 8x^2 + y^2 + x + 2 \end{aligned}$$

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

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

$$\begin{aligned} 5. & 7au + 9 + 7a^2 + 2u + 4au \\ & = 11au + 7a^2 + 2u + 9 \end{aligned}$$

$$\begin{aligned} 10. & -u - 6au + 7 + 1 + au \\ & = -5au - u + 8 \end{aligned}$$

Simplificar Expresiones (E)

Simplifique cada expresión.

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

6. $10y^2 + 1 + 1 - 3 + 9y$

2. $7y^2 + xy - x - 1 + 4$

7. $-b^2 + 7 - 1 + 7bc + bc$

3. $-1 + 2v^2 + 6x + 1 - v$

8. $b + b + 4u + 2b + 8$

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

9. $-a + 1 + 5v - 9a + 4a$

5. $b - b + 7z + 1 - 2z$

10. $1 + vz + 1 + v + 1$

Simplificar Expresiones (E) Respuestas

Simplifique cada expresión.

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

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

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

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

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

$$\begin{aligned} 8. \quad & b + b + 4u + 2b + 8 \\ & = 4b + 4u + 8 \end{aligned}$$

$$\begin{aligned} 4. \quad & -8u^2 + u + 8 + 7u + 10 \\ & = -8u^2 + 8u + 18 \end{aligned}$$

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

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

$$\begin{aligned} 10. \quad & 1 + vz + 1 + v + 1 \\ & = vz + v + 3 \end{aligned}$$

Simplificar Expresiones (F)

Simplifique cada expresión.

1. $1 - 2c + 1 - 3 - 4$

6. $-8vy - 9 + 1 + y + 1$

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

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

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

8. $-1 + 5 - v^2 + 1 + 3v^2$

4. $4az - az + a^2 + 8a^2 + z$

9. $-1 + c^2 + 1 + c + cv$

5. $u + 3uz - z + 6 - 1$

10. $-6v + vz + 10 + 10 + v$

Simplificar Expresiones (F) Respuestas

Simplifique cada expresión.

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

$$\begin{aligned} 6. \quad & -8vy - 9 + 1 + y + 1 \\ & = -8vy + y - 7 \end{aligned}$$

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

$$\begin{aligned} 7. \quad & u^2 + 6 + u^2 + 1 + u^2 \\ & = 3u^2 + 7 \end{aligned}$$

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

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

$$\begin{aligned} 4. \quad & 4az - az + a^2 + 8a^2 + z \\ & = 3az + 9a^2 + z \end{aligned}$$

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

$$\begin{aligned} 5. \quad & u + 3uz - z + 6 - 1 \\ & = 3uz + u - z + 5 \end{aligned}$$

$$\begin{aligned} 10. \quad & -6v + vz + 10 + 10 + v \\ & = vz - 5v + 20 \end{aligned}$$

Simplificar Expresiones (G)

Simplifique cada expresión.

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

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

2. $6cu - 6u^2 + 5 + c - 2$

7. $-x + ax - 7a + 1 + 8$

3. $2a^2 - a + 3az + 3 + 2$

8. $xz - 5z^2 + 2xz + 2z - x^2$

4. $u - u^2 + uz - 10u^2 + 1$

9. $-4u^2 + 1 + u^2 + 3uv + v^2$

5. $-1 + v + 1 + v + v$

10. $9a + 10a + z + z - 10az$

Simplificar Expresiones (G) Respuestas

Simplifique cada expresión.

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

$$\begin{aligned} 6. \quad & b^2 - 1 - u^2 - 4bu + 4u^2 \\ & = b^2 + 3u^2 - 4bu - 1 \end{aligned}$$

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

$$\begin{aligned} 7. \quad & -x + ax - 7a + 1 + 8 \\ & = ax - x - 7a + 9 \end{aligned}$$

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

$$\begin{aligned} 8. \quad & xz - 5z^2 + 2xz + 2z - x^2 \\ & = 3xz - 5z^2 - x^2 + 2z \end{aligned}$$

$$\begin{aligned} 4. \quad & u - u^2 + uz - 10u^2 + 1 \\ & = -11u^2 + uz + u + 1 \end{aligned}$$

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

$$\begin{aligned} 5. \quad & -1 + v + 1 + v + v \\ & = 3v \end{aligned}$$

$$\begin{aligned} 10. \quad & 9a + 10a + z + z - 10az \\ & = -10az + 19a + 2z \end{aligned}$$

Simplificar Expresiones (H)

Simplifique cada expresión.

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

6. $10 + 2z - 1 + 1 - y^2$

2. $-az + 10z + 1 + 7az + a$

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

3. $2x^2 + 4x - c + 8 - 6$

8. $1 + x^2 + 4x - 5 + 4y$

4. $5z^2 + 7 - 8 - x + x$

9. $10yz + 7y - 9 + 8y + 6z^2$

5. $-4u + u^2 - 4c^2 - 10c^2 + 8cu$

10. $8 + 3z^2 + 6v^2 - 1 + 10v$

Simplificar Expresiones (H) Respuestas

Simplifique cada expresión.

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

$$\begin{aligned} 6. \quad & 10 + 2z - 1 + 1 - y^2 \\ & = -y^2 + 2z + 10 \end{aligned}$$

$$\begin{aligned} 2. \quad & -az + 10z + 1 + 7az + a \\ & = 6az + 10z + a + 1 \end{aligned}$$

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

$$\begin{aligned} 3. \quad & 2x^2 + 4x - c + 8 - 6 \\ & = 2x^2 + 4x - c + 2 \end{aligned}$$

$$\begin{aligned} 8. \quad & 1 + x^2 + 4x - 5 + 4y \\ & = x^2 + 4x + 4y - 4 \end{aligned}$$

$$\begin{aligned} 4. \quad & 5z^2 + 7 - 8 - x + x \\ & = 5z^2 - 1 \end{aligned}$$

$$\begin{aligned} 9. \quad & 10yz + 7y - 9 + 8y + 6z^2 \\ & = 10yz + 6z^2 + 15y - 9 \end{aligned}$$

$$\begin{aligned} 5. \quad & -4u + u^2 - 4c^2 - 10c^2 + 8cu \\ & = u^2 - 14c^2 + 8cu - 4u \end{aligned}$$

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

Simplificar Expresiones (I)

Simplifique cada expresión.

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

6. $2c - c + c - 7c + c$

2. $b^2 - y - 7by + by + 1$

7. $x + 5 - 8b + x + b$

3. $-az + a^2 + az - 2 + 9z^2$

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

4. $-v^2 + v + cv + 10 + v^2$

9. $-3b + 2 - 1 + 10bu + 7u$

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

10. $9by - 8 + 2y + 5 + 1$

Simplificar Expresiones (I) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & -4u^2 + v^2 - 2 + 8 - uv \\ & = -4u^2 + v^2 - uv + 6 \end{aligned}$$

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

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

$$\begin{aligned} 7. & x + 5 - 8b + x + b \\ & = 2x - 7b + 5 \end{aligned}$$

$$\begin{aligned} 3. & -az + a^2 + az - 2 + 9z^2 \\ & = a^2 + 9z^2 - 2 \end{aligned}$$

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

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

$$\begin{aligned} 9. & -3b + 2 - 1 + 10bu + 7u \\ & = 10bu - 3b + 7u + 1 \end{aligned}$$

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

$$\begin{aligned} 10. & 9by - 8 + 2y + 5 + 1 \\ & = 9by + 2y - 2 \end{aligned}$$

Simplificar Expresiones (J)

Simplifique cada expresión.

1. $-6y^2 - y + y + 7 + 4y^2$

6. $-6x - 2bx + 10b + bx + 9bx$

2. $1 + 1 - z^2 + 5 + 3c$

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

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

8. $c^2 + 6 + z - cz + z$

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

9. $-c + v^2 - 10 - v^2 + 10c^2$

5. $v^2 + 3 + 10x - x + vx$

10. $bx + x + 10x^2 + 7x + b$

Simplificar Expresiones (J) Respuestas

Simplifique cada expresión.

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

$$\begin{aligned} 6. & -6x - 2bx + 10b + bx + 9bx \\ & = 8bx - 6x + 10b \end{aligned}$$

$$\begin{aligned} 2. & 1 + 1 - z^2 + 5 + 3c \\ & = -z^2 + 3c + 7 \end{aligned}$$

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

$$\begin{aligned} 3. & 1 + 2 - 10 - 6 + y \\ & = y - 13 \end{aligned}$$

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

$$\begin{aligned} 4. & 1 - v + u^2 + 7v - 10 \\ & = u^2 + 6v - 9 \end{aligned}$$

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

$$\begin{aligned} 5. & v^2 + 3 + 10x - x + vx \\ & = v^2 + vx + 9x + 3 \end{aligned}$$

$$\begin{aligned} 10. & bx + x + 10x^2 + 7x + b \\ & = bx + 10x^2 + 8x + b \end{aligned}$$