

Simplificar Expresiones (A)

Simplifique cada expresión.

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

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

2. $1 - y - y + y$

7. $-a^2 \cdot \left(-\frac{36a^3}{-4a \cdot a^2} \right)$

3. $1 - 1 \cdot 2c - 10$

8. $-3 \cdot z \cdot (-1) \cdot z^2$

4. $\frac{5x^2}{5x^2} - 1 - x$

9. $-9b \cdot b \cdot \left(-\frac{8b}{-8b} \right)$

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

10. $y - y^2 \cdot \frac{9y^4}{y^2}$

Simplificar Expresiones (A) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. \quad & 9c^2 + c + 1 + c^2 \\ & = 10c^2 + c + 1 \end{aligned}$$

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

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

$$\begin{aligned} 7. \quad & -a^2 \cdot \left(-\frac{36a^3}{-4a \cdot a^2} \right) \\ & = -9a^2 \end{aligned}$$

$$\begin{aligned} 3. \quad & 1 - 1 \cdot 2c - 10 \\ & = -2c - 9 \end{aligned}$$

$$\begin{aligned} 8. \quad & -3 \cdot z \cdot (-1) \cdot z^2 \\ & = 3z^3 \end{aligned}$$

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

$$\begin{aligned} 9. \quad & -9b \cdot b \cdot \left(-\frac{8b}{-8b} \right) \\ & = -9b^2 \end{aligned}$$

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

$$\begin{aligned} 10. \quad & y - y^2 \cdot \frac{9y^4}{y^2} \\ & = -9y^4 + y \end{aligned}$$

Simplificar Expresiones (B)

Simplifique cada expresión.

1. $-1 \cdot 4 \cdot y \cdot (-1)$

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

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

7. $-\frac{27y^2}{3y^2} \cdot (-y^2) \cdot (-4)$

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

8. $\frac{40u^2}{-10 \cdot (-u)} + 4u$

4. $\frac{7c^2}{-7} + c^2 + 5c$

9. $7b^2 + \frac{18b}{b \cdot 3}$

5. $1 - \frac{7u^4}{7u^2} + 2$

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

Simplificar Expresiones (B) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & -1 \cdot 4 \cdot y \cdot (-1) \\ & = 4y \end{aligned}$$

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

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

$$\begin{aligned} 7. & -\frac{27y^2}{3y^2} \cdot (-y^2) \cdot (-4) \\ & = -36y^2 \end{aligned}$$

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

$$\begin{aligned} 8. & \frac{40u^2}{-10 \cdot (-u)} + 4u \\ & = 8u \end{aligned}$$

$$\begin{aligned} 4. & \frac{7c^2}{-7} + c^2 + 5c \\ & = 5c \end{aligned}$$

$$\begin{aligned} 9. & 7b^2 + \frac{18b}{b \cdot 3} \\ & = 7b^2 + 6 \end{aligned}$$

$$\begin{aligned} 5. & 1 - \frac{7u^4}{7u^2} + 2 \\ & = -u^2 + 3 \end{aligned}$$

$$\begin{aligned} 10. & v^2 + 4v^2 + 10v^2 - 10 \\ & = 15v^2 - 10 \end{aligned}$$

Simplificar Expresiones (C)

Simplifique cada expresión.

1. $6x^2 \cdot (-x^2) \cdot 4x^2 \cdot x^2$

6. $-1 \cdot 9 \cdot 7a^2 - 10a$

2. $7y^2 - \frac{30y^4}{-3y^2} - y$

7. $-6v \cdot \left(-\frac{9v^3}{v}\right) \cdot (-3)$

3. $-7y^2 \cdot (-1) + \frac{y^3}{y}$

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

4. $-1 + 7a \cdot (-1) + 6a$

9. $1 + 1 + 5x + x^2$

5. $y + y + 6 + 3y$

10. $-4c \cdot c \cdot 9c \cdot c$

Simplificar Expresiones (C) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. \quad & 6x^2 \cdot (-x^2) \cdot 4x^2 \cdot x^2 \\ & = -24x^8 \end{aligned}$$

$$\begin{aligned} 6. \quad & -1 \cdot 9 \cdot 7a^2 - 10a \\ & = -63a^2 - 10a \end{aligned}$$

$$\begin{aligned} 2. \quad & 7y^2 - \frac{30y^4}{-3y^2} - y \\ & = 17y^2 - y \end{aligned}$$

$$\begin{aligned} 7. \quad & -6v \cdot \left(-\frac{9v^3}{v}\right) \cdot (-3) \\ & = -162v^3 \end{aligned}$$

$$\begin{aligned} 3. \quad & -7y^2 \cdot (-1) + \frac{y^3}{y} \\ & = 8y^2 \end{aligned}$$

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

$$\begin{aligned} 4. \quad & -1 + 7a \cdot (-1) + 6a \\ & = -a - 1 \end{aligned}$$

$$\begin{aligned} 9. \quad & 1 + 1 + 5x + x^2 \\ & = x^2 + 5x + 2 \end{aligned}$$

$$\begin{aligned} 5. \quad & y + y + 6 + 3y \\ & = 5y + 6 \end{aligned}$$

$$\begin{aligned} 10. \quad & -4c \cdot c \cdot 9c \cdot c \\ & = -36c^4 \end{aligned}$$

Simplificar Expresiones (D)

Simplifique cada expresión.

1. $-y^2 + 10y - y \cdot (-y^2)$

6. $9c^2 - 7c^2 + c^2 \cdot (-8)$

2. $-\frac{6u^4}{-u^2} + u \cdot (-4)$

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

3. $-z^2 - z^2 \cdot \frac{z^3}{z^2}$

8. $-4v - v \cdot v \cdot 5$

4. $y \cdot \left(-\frac{18y^4}{-9y^2 \cdot 2y} \right)$

9. $z^2 + z + z + 5z^2$

5. $-\frac{21x}{-7} + 5 \cdot (-5x^2)$

10. $1 + 6c^2 + \frac{3c^3}{3c}$

Simplificar Expresiones (D) Respuestas

Simplifique cada expresión.

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

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

$$\begin{aligned} 2. & -\frac{6u^4}{-u^2} + u \cdot (-4) \\ & = 6u^2 - 4u \end{aligned}$$

$$\begin{aligned} 7. & v^2 - 7 + v - 9 \\ & = v^2 + v - 16 \end{aligned}$$

$$\begin{aligned} 3. & -z^2 - z^2 \cdot \frac{z^3}{z^2} \\ & = -z^3 - z^2 \end{aligned}$$

$$\begin{aligned} 8. & -4v - v \cdot v \cdot 5 \\ & = -5v^2 - 4v \end{aligned}$$

$$\begin{aligned} 4. & y \cdot \left(-\frac{18y^4}{-9y^2 \cdot 2y} \right) \\ & = y^2 \end{aligned}$$

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

$$\begin{aligned} 5. & -\frac{21x}{-7} + 5 \cdot (-5x^2) \\ & = -25x^2 + 3x \end{aligned}$$

$$\begin{aligned} 10. & 1 + 6c^2 + \frac{3c^3}{3c} \\ & = 7c^2 + 1 \end{aligned}$$

Simplificar Expresiones (E)

Simplifique cada expresión.

1. $-9z^2 \cdot \left(-\frac{4z^5}{z^2 \cdot z}\right)$

6. $-\frac{7x^2}{-7x^2} + 8x^2 \cdot (-x^2)$

2. $-2y \cdot y \cdot 4 \cdot y^2$

7. $-1 \cdot \left(-\frac{v^3}{-v}\right) + 5v^2$

3. $-\frac{5}{5} \cdot 5 + 10y^2$

8. $x^2 + 5 - \frac{8x^4}{-x^2}$

4. $-10y^2 + y^2 + 3 + y$

9. $1 + 1 + x + 5x$

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

10. $-\frac{36v^3}{6v} + 1 - v^2$

Simplificar Expresiones (E) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & -9z^2 \cdot \left(-\frac{4z^5}{z^2 \cdot z} \right) \\ & = 36z^4 \end{aligned}$$

$$\begin{aligned} 6. & -\frac{7x^2}{-7x^2} + 8x^2 \cdot (-x^2) \\ & = -8x^4 + 1 \end{aligned}$$

$$\begin{aligned} 2. & -2y \cdot y \cdot 4 \cdot y^2 \\ & = -8y^4 \end{aligned}$$

$$\begin{aligned} 7. & -1 \cdot \left(-\frac{v^3}{-v} \right) + 5v^2 \\ & = 4v^2 \end{aligned}$$

$$\begin{aligned} 3. & -\frac{5}{5} \cdot 5 + 10y^2 \\ & = 10y^2 - 5 \end{aligned}$$

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

$$\begin{aligned} 4. & -10y^2 + y^2 + 3 + y \\ & = -9y^2 + y + 3 \end{aligned}$$

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

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

$$\begin{aligned} 10. & -\frac{36v^3}{6v} + 1 - v^2 \\ & = -7v^2 + 1 \end{aligned}$$

Simplificar Expresiones (F)

Simplifique cada expresión.

1. $v^2 + v \cdot \frac{45v^3}{5v}$

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

2. $y^2 - y^2 + 6y + y$

7. $3z^2 + 3z + z^2 + z^2$

3. $-\frac{a^3}{a} - 9a^2 \cdot a$

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

4. $\frac{32x^3}{8x^2} + 10 - 6x^2$

9. $-b - \frac{405b^4}{9b^2 \cdot (-5b^2)}$

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

10. $2a^2 + a \cdot (-9) + a^2$

Simplificar Expresiones (F) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. v^2 + v \cdot \frac{45v^3}{5v} \\ = 9v^3 + v^2 \end{aligned}$$

$$\begin{aligned} 6. -9z - 9z + 1 - z^2 \\ = -z^2 - 18z + 1 \end{aligned}$$

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

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

$$\begin{aligned} 3. -\frac{a^3}{a} - 9a^2 \cdot a \\ = -9a^3 - a^2 \end{aligned}$$

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

$$\begin{aligned} 4. \frac{32x^3}{8x^2} + 10 - 6x^2 \\ = -6x^2 + 4x + 10 \end{aligned}$$

$$\begin{aligned} 9. -b - \frac{405b^4}{9b^2 \cdot (-5b^2)} \\ = -b + 9 \end{aligned}$$

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

$$\begin{aligned} 10. 2a^2 + a \cdot (-9) + a^2 \\ = 3a^2 - 9a \end{aligned}$$

Simplificar Expresiones (G)

Simplifique cada expresión.

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

6. $-1 - 6 + \frac{8v}{4}$

2. $x^2 + \frac{x^4}{x^2} - x$

7. $9z^2 \cdot 2z^2 \cdot 10z^2 \cdot (-9)$

3. $1 + 9z + 1 - z$

8. $-\frac{9u}{9u} - 3u \cdot u^2$

4. $8b + b \cdot \frac{4b^3}{-4b^2}$

9. $9 + b^2 + 6b + b^2$

5. $u - 10u - 3u^2 + u$

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

Simplificar Expresiones (G) Respuestas

Simplifique cada expresión.

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

$$\begin{aligned} 6. & -1 - 6 + \frac{8v}{4} \\ & = 2v - 7 \end{aligned}$$

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

$$\begin{aligned} 7. & 9z^2 \cdot 2z^2 \cdot 10z^2 \cdot (-9) \\ & = -1620z^6 \end{aligned}$$

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

$$\begin{aligned} 8. & -\frac{9u}{9u} - 3u \cdot u^2 \\ & = -3u^3 - 1 \end{aligned}$$

$$\begin{aligned} 4. & 8b + b \cdot \frac{4b^3}{-4b^2} \\ & = -b^2 + 8b \end{aligned}$$

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

$$\begin{aligned} 5. & u - 10u - 3u^2 + u \\ & = -3u^2 - 8u \end{aligned}$$

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

Simplificar Expresiones (H)

Simplifique cada expresión.

1. $1 + \frac{6y^2}{6} + y^2$

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

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

7. $1 - 1 + 2x + 1$

3. $-z^2 + 5 \cdot (-8z) \cdot (-z)$

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

4. $\frac{448x}{-7x \cdot 8} \cdot x$

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

5. $-1 + \frac{8}{8} + 2v^2$

10. $-x - \frac{14x^2}{2} + 4x^2$

Simplificar Expresiones (H) Respuestas

Simplifique cada expresión.

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

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

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

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

$$\begin{aligned} 3. \quad & -z^2 + 5 \cdot (-8z) \cdot (-z) \\ & = 39z^2 \end{aligned}$$

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

$$\begin{aligned} 4. \quad & \frac{448x}{-7x \cdot 8} \cdot x \\ & = -8x \end{aligned}$$

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

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

$$\begin{aligned} 10. \quad & -x - \frac{14x^2}{2} + 4x^2 \\ & = -3x^2 - x \end{aligned}$$

Simplificar Expresiones (I)

Simplifique cada expresión.

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

6. $8c^2 + 8c^2 - c^2 + 1$

2. $-\frac{6z^4}{6z^2} + z + 1$

7. $-4z + z^2 + \frac{54z^4}{-6z^2}$

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

8. $u^2 + 5u^2 + u^2 + u$

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

9. $-8v \cdot (-4) \cdot \left(-\frac{v^2}{v}\right)$

5. $-a - 3 + \frac{7a^3}{a^2}$

10. $7 + 2 + y^2 + y^2$

Simplificar Expresiones (I) Respuestas

Simplifique cada expresión.

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

$$\begin{aligned} 6. & 8c^2 + 8c^2 - c^2 + 1 \\ & = 15c^2 + 1 \end{aligned}$$

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

$$\begin{aligned} 7. & -4z + z^2 + \frac{54z^4}{-6z^2} \\ & = -8z^2 - 4z \end{aligned}$$

$$\begin{aligned} 3. & -8x^2 - 5 + 1 - x^2 \\ & = -9x^2 - 4 \end{aligned}$$

$$\begin{aligned} 8. & u^2 + 5u^2 + u^2 + u \\ & = 7u^2 + u \end{aligned}$$

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

$$\begin{aligned} 9. & -8v \cdot (-4) \cdot \left(-\frac{v^2}{v}\right) \\ & = -32v^2 \end{aligned}$$

$$\begin{aligned} 5. & -a - 3 + \frac{7a^3}{a^2} \\ & = 6a - 3 \end{aligned}$$

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

Simplificar Expresiones (J)

Simplifique cada expresión.

1. $a - a^2 - \frac{4}{4}$

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

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

7. $-z^2 \cdot (-7) \cdot (-3z) \cdot 2$

3. $-z \cdot 6 \cdot 4z^2 \cdot 10z$

8. $1 + 8 + \frac{c^3}{c^2}$

4. $v^2 \cdot \left(-\frac{v^4}{v^2}\right) \cdot (-v)$

9. $4u^2 - 9u^2 - 5 + 6u$

5. $-a + a + 6a + 6a$

10. $6 \cdot \left(-\frac{10u^2}{10}\right) - u^2$

Simplificar Expresiones (J) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. \quad a - a^2 - \frac{4}{4} \\ = -a^2 + a - 1 \end{aligned}$$

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

$$\begin{aligned} 2. \quad u^2 + 8 + 4u - 10u \\ = u^2 - 6u + 8 \end{aligned}$$

$$\begin{aligned} 7. \quad -z^2 \cdot (-7) \cdot (-3z) \cdot 2 \\ = -42z^3 \end{aligned}$$

$$\begin{aligned} 3. \quad -z \cdot 6 \cdot 4z^2 \cdot 10z \\ = -240z^4 \end{aligned}$$

$$\begin{aligned} 8. \quad 1 + 8 + \frac{c^3}{c^2} \\ = c + 9 \end{aligned}$$

$$\begin{aligned} 4. \quad v^2 \cdot \left(-\frac{v^4}{v^2}\right) \cdot (-v) \\ = v^5 \end{aligned}$$

$$\begin{aligned} 9. \quad 4u^2 - 9u^2 - 5 + 6u \\ = -5u^2 + 6u - 5 \end{aligned}$$

$$\begin{aligned} 5. \quad -a + a + 6a + 6a \\ = 12a \end{aligned}$$

$$\begin{aligned} 10. \quad 6 \cdot \left(-\frac{10u^2}{10}\right) - u^2 \\ = -7u^2 \end{aligned}$$