

## Simplificar Expresiones (E)

Simplifique cada expresión.

1.  $y^2 + 1 + 9y^2 + 10 + 4by + 2u + u + 5$

2.  $-4 \cdot \frac{54}{9} \cdot 4x \cdot (-6v) + 8y + \frac{4u^2}{2}$

3.  $-\frac{63a^2}{-9} + 8 - \frac{50a^4}{-10a^2} - a^2 - 2ac - 9u$

4.  $-vz + 6y^2 + 4z + vz - 1 - 6 + 8 + 1$

5.  $\frac{3b}{b} + 4uv + 2b + u + b^2 \cdot 10b + 9v$

6.  $-u^2 \cdot \frac{20ux^2}{-2x} + 3 \cdot (-7vx) + 5bv + \frac{6b}{6b}$

7.  $-uv - 1 - 1 + 4 - 7vz - 3 - bz + 9b$

8.  $6 + u + c^2 + 1 + 10c^2 - c - 1 + 1$

9.  $-4a + 9ax + vx \cdot \left(-\frac{6a^2v}{2v}\right) + a + \frac{14a}{-2}$

10.  $-y \cdot (-1) \cdot y \cdot (-a) + 10y \cdot (-z) \cdot 7y \cdot (-6uy)$

## Simplificar Expresiones (E) Respuestas

Simplifique cada expresión.

$$\begin{aligned} 1. & y^2 + 1 + 9y^2 + 10 + 4by + 2u + u + 5 \\ & = 10y^2 + 4by + 3u + 16 \end{aligned}$$

$$\begin{aligned} 2. & -4 \cdot \frac{54}{9} \cdot 4x \cdot (-6v) + 8y + \frac{4u^2}{2} \\ & = 576vx + 2u^2 + 8y \end{aligned}$$

$$\begin{aligned} 3. & -\frac{63a^2}{-9} + 8 - \frac{50a^4}{-10a^2} - a^2 - 2ac - 9u \\ & = 11a^2 - 2ac - 9u + 8 \end{aligned}$$

$$\begin{aligned} 4. & -vz + 6y^2 + 4z + vz - 1 - 6 + 8 + 1 \\ & = 6y^2 + 4z + 2 \end{aligned}$$

$$\begin{aligned} 5. & \frac{3b}{b} + 4uv + 2b + u + b^2 \cdot 10b + 9v \\ & = 10b^3 + 4uv + 2b + u + 9v + 3 \end{aligned}$$

$$\begin{aligned} 6. & -u^2 \cdot \frac{20ux^2}{-2x} + 3 \cdot (-7vx) + 5bv + \frac{6b}{6b} \\ & = 10u^3x - 21vx + 5bv + 1 \end{aligned}$$

$$\begin{aligned} 7. & -uv - 1 - 1 + 4 - 7vz - 3 - bz + 9b \\ & = -uv - 7vz - bz + 9b - 1 \end{aligned}$$

$$\begin{aligned} 8. & 6 + u + c^2 + 1 + 10c^2 - c - 1 + 1 \\ & = 11c^2 + u - c + 7 \end{aligned}$$

$$\begin{aligned} 9. & -4a + 9ax + vx \cdot \left( -\frac{6a^2v}{2v} \right) + a + \frac{14a}{-2} \\ & = -3a^2vx + 9ax - 10a \end{aligned}$$

$$\begin{aligned} 10. & -y \cdot (-1) \cdot y \cdot (-a) + 10y \cdot (-z) \cdot 7y \cdot (-6uy) \\ & = 420uy^3z - ay^2 \end{aligned}$$