

## Simplifying Expressions (C)

Simplify each expression.

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

6.  $5 + 1 + 10z - \frac{7v^4}{-7v^2}$

2.  $ay \cdot (-8) \cdot y \cdot (-a^2) \cdot (-a^2)$

7.  $-\frac{112x^2z^4}{xz \cdot z \cdot (-7) \cdot 2xz}$

3.  $4 \cdot y^2 \cdot 3y^2 \cdot (-8) \cdot (-1)$

8.  $6 + v + 2v - v + x^2$

4.  $-\frac{5}{-1} + 8x^2 \cdot \frac{8ux}{ux}$

9.  $x^2 + a^2 - \frac{8ax^2}{-8a} - 3a$

5.  $9 \cdot 10u^2 \cdot (-ux) \cdot \left(-\frac{2x}{-x}\right)$

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

## Simplifying Expressions (C) Answers

Simplify each expression.

$$1. 8c^2 + 5z + z^2 - 5cz + cz \\ = 8c^2 + z^2 - 4cz + 5z$$

$$6. 5 + 1 + 10z - \frac{7v^4}{-7v^2} \\ = v^2 + 10z + 6$$

$$2. ay \cdot (-8) \cdot y \cdot (-a^2) \cdot (-a^2) \\ = -8a^5y^2$$

$$7. -\frac{112x^2z^4}{xz \cdot z \cdot (-7) \cdot 2xz} \\ = 8z$$

$$3. 4 \cdot y^2 \cdot 3y^2 \cdot (-8) \cdot (-1) \\ = 96y^4$$

$$8. 6 + v + 2v - v + x^2 \\ = x^2 + 2v + 6$$

$$4. -\frac{5}{-1} + 8x^2 \cdot \frac{8ux}{ux} \\ = 64x^2 + 5$$

$$9. x^2 + a^2 - \frac{8ax^2}{-8a} - 3a \\ = 2x^2 + a^2 - 3a$$

$$5. 9 \cdot 10u^2 \cdot (-ux) \cdot \left(-\frac{2x}{-x}\right) \\ = -180u^3x$$

$$10. z - \frac{6x}{-x} + x^2 + 1 \\ = x^2 + z + 7$$