

## Simplifying Expressions (G)

Simplify each expression.

1.  $y \cdot \left( -\frac{a^2y^3}{-ay \cdot y} \right)$

6.  $-7ux + \frac{4ux^2}{2x} + 10ux$

2.  $y^2 \cdot \left( -\frac{32uy^2}{-8y \cdot 4y} \right)$

7.  $5a \cdot az \cdot z \cdot (-3a)$

3.  $u - \frac{z}{-z} \cdot uz$

8.  $x^2 + c - 5 - 7$

4.  $9u^2 \cdot (-1) \cdot \frac{63x^3}{-9x^2}$

9.  $7 \cdot 5u \cdot u^2 \cdot (-2u^2)$

5.  $\frac{8b^2}{8b^2} + a + b$

10.  $7v + 1 + a + 5a$

## Simplifying Expressions (G) Answers

Simplify each expression.

$$1. y \cdot \left( -\frac{a^2y^3}{-ay \cdot y} \right) \\ = ay^2$$

$$6. -7ux + \frac{4ux^2}{2x} + 10ux \\ = 5ux$$

$$2. y^2 \cdot \left( -\frac{32uy^2}{-8y \cdot 4y} \right) \\ = uy^2$$

$$7. 5a \cdot az \cdot z \cdot (-3a) \\ = -15a^3z^2$$

$$3. u - \frac{z}{-z} \cdot uz \\ = uz + u$$

$$8. x^2 + c - 5 - 7 \\ = x^2 + c - 12$$

$$4. 9u^2 \cdot (-1) \cdot \frac{63x^3}{-9x^2} \\ = 63u^2x$$

$$9. 7 \cdot 5u \cdot u^2 \cdot (-2u^2) \\ = -70u^5$$

$$5. \frac{8b^2}{8b^2} + a + b \\ = a + b + 1$$

$$10. 7v + 1 + a + 5a \\ = 7v + 6a + 1$$