

## Simplifying Expressions (H)

Simplify each expression.

1.  $31x^2 - 1 + \frac{80}{-8} - 88y^2 \cdot y \cdot y^2 + 30yz$

2.  $39c + \frac{4136u}{88u} + \frac{42cvy}{42vy} + u^2 \cdot (-y) + 72y$

3.  $-60v + 51x + 18x + x + x^2 - 23 - 77vx + 89ux$

4.  $83ax - x + 25cx - 78ay - 1 + 51 - 92x + 18x$

5.  $-\frac{5418b^3u}{-63bu} + b^2 \cdot \left(-\frac{65b^2}{b^2}\right) \cdot (-72u) + 54b \cdot 8b$

## Simplifying Expressions (H) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & 31x^2 - 1 + \frac{80}{-8} - 88y^2 \cdot y \cdot y^2 + 30yz \\ & = -88y^5 + 31x^2 + 30yz - 11 \end{aligned}$$

$$\begin{aligned} 2. \quad & 39c + \frac{4136u}{88u} + \frac{42cvy}{42vy} + u^2 \cdot (-y) + 72y \\ & = -u^2y + 40c + 72y + 47 \end{aligned}$$

$$\begin{aligned} 3. \quad & -60v + 51x + 18x + x + x^2 - 23 - 77vx + 89ux \\ & = x^2 - 77vx + 89ux - 60v + 70x - 23 \end{aligned}$$

$$\begin{aligned} 4. \quad & 83ax - x + 25cx - 78ay - 1 + 51 - 92x + 18x \\ & = 83ax + 25cx - 78ay - 75x + 50 \end{aligned}$$

$$\begin{aligned} 5. \quad & -\frac{5418b^3u}{-63bu} + b^2 \cdot \left(-\frac{65b^2}{b^2}\right) \cdot (-72u) + 54b \cdot 8b \\ & = 4680b^2u + 518b^2 \end{aligned}$$