

## Simplifying Expressions (I)

Simplify each expression.

1.  $6uv \cdot v \cdot u^2 + 8 + 5v^2$

6.  $3 - a - y + 1 - 9$

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

7.  $1 + u + \frac{9uz}{9} - 4u$

3.  $-\frac{10c^2x}{-10cx} - c^2 \cdot (-cx) \cdot cx$

8.  $5y^2 \cdot \frac{cy^2}{-y} + \frac{27cy^2}{9y^2}$

4.  $y + 1 + \frac{6yz^3}{2yz} - 1$

9.  $4b^2 + 9by + 3 + 7y^2 \cdot 10$

5.  $-y - 10y + x - 2 - 1$

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

## Simplifying Expressions (I) Answers

Simplify each expression.

$$\begin{aligned} 1. & 6uv \cdot v \cdot u^2 + 8 + 5v^2 \\ & = 6u^3v^2 + 5v^2 + 8 \end{aligned}$$

$$\begin{aligned} 6. & 3 - a - y + 1 - 9 \\ & = -a - y - 5 \end{aligned}$$

$$\begin{aligned} 2. & 8u^2 + c + 6 - 2cu - 1 \\ & = 8u^2 - 2cu + c + 5 \end{aligned}$$

$$\begin{aligned} 7. & 1 + u + \frac{9uz}{9} - 4u \\ & = uz - 3u + 1 \end{aligned}$$

$$\begin{aligned} 3. & -\frac{10c^2x}{-10cx} - c^2 \cdot (-cx) \cdot cx \\ & = c^4x^2 + c \end{aligned}$$

$$\begin{aligned} 8. & 5y^2 \cdot \frac{cy^2}{-y} + \frac{27cy^2}{9y^2} \\ & = -5cy^3 + 3c \end{aligned}$$

$$\begin{aligned} 4. & y + 1 + \frac{6yz^3}{2yz} - 1 \\ & = 3z^2 + y \end{aligned}$$

$$\begin{aligned} 9. & 4b^2 + 9by + 3 + 7y^2 \cdot 10 \\ & = 4b^2 + 9by + 70y^2 + 3 \end{aligned}$$

$$\begin{aligned} 5. & -y - 10y + x - 2 - 1 \\ & = -11y + x - 3 \end{aligned}$$

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