

Simplifying Expressions (F)

Simplify each expression.

1. $-6c + c^2 - 6x + 4cx - x + 1$

6. $c - cx - 4 - 1 - 1 - 5c$

2. $y - u^2 + 5 - 1 - y + y$

7. $-6uv + v - v + v^2 - 2 - 2u^2$

3. $-1 + 1 + 3 - 1 - 6bu - 5u^2$

8. $1 - y^2 - y + 4y + 4y^2 + 1$

4. $6 + 3y + 6y^2 - y^2 - y^2 + y$

9. $a^2 + 1 - 2a + 6b - 3b^2 - a^2$

5. $-a + u + 1 + 5 + au - a^2$

10. $c + 1 - x^2 + 1 + 5x^2 + 6c^2$

Simplifying Expressions (F) Answers

Simplify each expression.

$$\begin{aligned} 1. & -6c + c^2 - 6x + 4cx - x + 1 \\ & = c^2 + 4cx - 6c - 7x + 1 \end{aligned}$$

$$\begin{aligned} 6. & c - cx - 4 - 1 - 1 - 5c \\ & = -cx - 4c - 6 \end{aligned}$$

$$\begin{aligned} 2. & y - u^2 + 5 - 1 - y + y \\ & = -u^2 + y + 4 \end{aligned}$$

$$\begin{aligned} 7. & -6uv + v - v + v^2 - 2 - 2u^2 \\ & = -6uv + v^2 - 2u^2 - 2 \end{aligned}$$

$$\begin{aligned} 3. & -1 + 1 + 3 - 1 - 6bu - 5u^2 \\ & = -6bu - 5u^2 + 2 \end{aligned}$$

$$\begin{aligned} 8. & 1 - y^2 - y + 4y + 4y^2 + 1 \\ & = 3y^2 + 3y + 2 \end{aligned}$$

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

$$\begin{aligned} 9. & a^2 + 1 - 2a + 6b - 3b^2 - a^2 \\ & = -3b^2 - 2a + 6b + 1 \end{aligned}$$

$$\begin{aligned} 5. & -a + u + 1 + 5 + au - a^2 \\ & = au - a^2 - a + u + 6 \end{aligned}$$

$$\begin{aligned} 10. & c + 1 - x^2 + 1 + 5x^2 + 6c^2 \\ & = 4x^2 + 6c^2 + c + 2 \end{aligned}$$