Simplifying Expressions

Simplify each expression.

1. $-\dfrac{7uv^3}{-v^2} - \dfrac{50uv}{-5} + 1$

2. $\dfrac{4c^2z}{z} + \dfrac{c^3z}{c^2} + 3z$

3. $-\dfrac{3b^2v^3}{b \cdot 3v^2} + 4 \cdot b$

4. $-3u + 6u - 1 + c^2 + c$

5. $3 + 1 - z - uz - 1$

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

7. $-1 + 1 - ab + 10a^2 + 7a$

8. $-a^2 + b^2 + \dfrac{36}{6} + 9ab$

9. $y - x + y + x^2 \cdot y$

10. $-\dfrac{7x^2}{x} + 3 + \dfrac{10x}{x}$

Simplifying Expressions Answers

Simplify each expression.

1. $-\dfrac{7uv^3}{-v^2} - \dfrac{50uv}{-5} + 1$
$= 17uv + 1$

2. $\dfrac{4c^2z}{z} + \dfrac{c^3z}{c^2} + 3z$
$= 4c^2 + cz + 3z$

3. $-\dfrac{3b^2v^3}{b \cdot 3v^2} + 4 \cdot b$
$= -bv + 4b$

4. $-3u + 6u - 1 + c^2 + c$
$= c^2 + 3u + c - 1$

5. $3 + 1 - z - uz - 1$
$= -uz - z + 3$

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

7. $-1 + 1 - ab + 10a^2 + 7a$
$= -ab + 10a^2 + 7a$

8. $-a^2 + b^2 + \dfrac{36}{6} + 9ab$
$= -a^2 + b^2 + 9ab + 6$

9. $y - x + y + x^2 \cdot y$
$= x^2y + 2y - x$

10. $-\dfrac{7x^2}{x} + 3 + \dfrac{10x}{x}$
$= -7x + 13$

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