Simplifying Expressions (G)

Simplify each expression.

1. $\dfrac{90az^2}{10\cdot(-az)}+\dfrac{a^3}{a}$

2. $\dfrac{7u}{7}\cdot 3v^2\cdot(-2)+9u^2$

3. $v\cdot\dfrac{10}{10}\cdot 3z\cdot(-10)$

4. $-\dfrac{v}{v}-5v+8c+c$

5. $8a+6a^2-1+\dfrac{7a^3}{a}$

6. $-v+v^2-1+1+10$

7. $8\cdot\left(-3y^2\right)\cdot\dfrac{7z}{7}\cdot(-z)$

8. $-1-4u^2+9cu+2+c$

9. $a-1+8a+ax+8x$

10. $9+y^2+uy-10-y$

Simplifying Expressions (G) Answers

Simplify each expression.

1. $\dfrac{90az^2}{10\cdot(-az)}+\dfrac{a^3}{a}$
$=a^2-9z$

2. $\dfrac{7u}{7}\cdot 3v^2\cdot(-2)+9u^2$
$=-6uv^2+9u^2$

3. $v\cdot\dfrac{10}{10}\cdot 3z\cdot(-10)$
$=-30vz$

4. $-\dfrac{v}{v}-5v+8c+c$
$=-5v+9c-1$

5. $8a+6a^2-1+\dfrac{7a^3}{a}$
$=13a^2+8a-1$

6. $-v+v^2-1+1+10$
$=v^2-v+10$

7. $8\cdot\left(-3y^2\right)\cdot\dfrac{7z}{7}\cdot(-z)$
$=24y^2z^2$

8. $-1-4u^2+9cu+2+c$
$=-4u^2+9cu+c+1$

9. $a-1+8a+ax+8x$
$=ax+9a+8x-1$

10. $9+y^2+uy-10-y$
$=y^2+uy-y-1$