Simplifying Expressions (D)

Simplify each expression.

1. $y+x+1+1-9$

2. $2uv+\dfrac{5u^3v}{u\cdot 5uv}-v^2$

3. $-7x\cdot bx\cdot\left(-\dfrac{30b^2x}{2b^2\cdot 3}\right)$

4. $y^2+y^2\cdot 6y^2+1+10y$

5. $-6-2u+bu+bu-9$

6. $-4-ax+6x+x-ax$

7. $9by+8+9b^2-\dfrac{b^2y^2}{b^2}$

8. $u^2\cdot 4z+4u^2\cdot uz\cdot 3z^2$

9. $-2z^2\cdot(-10)+z^2+4\cdot(-2z)$

10. $6+2+10+a\cdot 7$

Simplifying Expressions (D) Answers

Simplify each expression.

1. $y+x+1+1-9$
$= y+x-7$

2. $2uv+\dfrac{5u^3v}{u\cdot 5uv}-v^2$
$= 2uv-v^2+u$

3. $-7x\cdot bx\cdot\left(-\dfrac{30b^2x}{2b^2\cdot 3}\right)$
$= 35bx^3$

4. $y^2+y^2\cdot 6y^2+1+10y$
$= 6y^4+y^2+10y+1$

5. $-6-2u+bu+bu-9$
$= 2bu-2u-15$

6. $-4-ax+6x+x-ax$
$= -2ax+7x-4$

7. $9by+8+9b^2-\dfrac{b^2y^2}{b^2}$
$= 9by+9b^2-y^2+8$

8. $u^2\cdot 4z+4u^2\cdot uz\cdot 3z^2$
$= 12u^3z^3+4u^2z$

9. $-2z^2\cdot(-10)+z^2+4\cdot(-2z)$
$= 21z^2-8z$

10. $6+2+10+a\cdot 7$
$= 7a+18$