

Simplifying Expressions (I)

Simplify each expression.

$$1. \frac{56z^7}{z \cdot (-7z^2) \cdot 8z^2}$$

$$6. 2x^2 \cdot 7x \cdot \frac{8x^2}{8x}$$

$$2. -4z^2 \cdot (-3z^2) \cdot (-z^2) \cdot z^2$$

$$7. -\frac{21x^2}{x^2 \cdot 3} \cdot x$$

$$3. 2v^2 \cdot \left(-\frac{12v}{3v}\right) \cdot v^2$$

$$8. -1 \cdot \left(-\frac{30v^2}{-10}\right) \cdot v^2$$

$$4. -a^2 \cdot \frac{a^2}{a} \cdot a$$

$$9. 8 \cdot 2u^2 \cdot \frac{5u^3}{5u}$$

$$5. \frac{10b^3}{10b^2} \cdot (-1) \cdot (-b^2)$$

$$10. -b \cdot \frac{9b^2}{b} \cdot b^2$$

Simplifying Expressions (I) Answers

Simplify each expression.

$$1. \frac{56z^7}{z \cdot (-7z^2) \cdot 8z^2} \\ = -z^2$$

$$6. 2x^2 \cdot 7x \cdot \frac{8x^2}{8x} \\ = 14x^4$$

$$2. -4z^2 \cdot (-3z^2) \cdot (-z^2) \cdot z^2 \\ = -12z^8$$

$$7. -\frac{21x^2}{x^2 \cdot 3} \cdot x \\ = -7x$$

$$3. 2v^2 \cdot \left(-\frac{12v}{3v}\right) \cdot v^2 \\ = -8v^4$$

$$8. -1 \cdot \left(-\frac{30v^2}{-10}\right) \cdot v^2 \\ = -3v^4$$

$$4. -a^2 \cdot \frac{a^2}{a} \cdot a \\ = -a^4$$

$$9. 8 \cdot 2u^2 \cdot \frac{5u^3}{5u} \\ = 16u^4$$

$$5. \frac{10b^3}{10b^2} \cdot (-1) \cdot (-b^2) \\ = b^3$$

$$10. -b \cdot \frac{9b^2}{b} \cdot b^2 \\ = -9b^4$$