

Name:

Date:

Period:

For problems 1 – 8, show all your work. Make sure to do each problem methodically, step by step.

1. $((2c^2)^3 \div (8c^3)) \cdot (5c)^2$

2. $(27x^8y^3 \div 3x^2y) \div (3xy)^2$

3. $\frac{10x}{(-2x)^2} \div \frac{5}{8x^4}$

4. $(2x)^4(2x)^3$

5. $16x^2 \div 16x^5$

6. $(9z^{-2})(3z^{-1})^{-3}$

7. $((25w^4) \div (5w^3)) \div (5w^{-7})$

8. $(25w^4) \div ((5w^3) \div (5w^{-7}))$

9. Determine the set that does not satisfy closure property of addition and explain why.

- A. Real numbers
- B. Irrational numbers
- C. Rational numbers
- D. Integers