

Name _____

Date _____

HW #9 Show all Work!

Period _____

1) Simplify: $(-3p^2q^5r)^3$

2) Find the product of $-6x^2yz$ and $(2x^2yz^3 + 4x^3y^2z^2 - 8xyz)$

3) Simplify: $\frac{(x^2y^5)^2(5x^3y^3)}{10xy^3}$

4) Simplify: $\frac{(5x^7y^5)(-4x^4y^3)(x^3y)}{(5x^6y^6)(2x^2y)}$

5) Write a simplified expression of $(2x^3yz^4)^3(5x^2y^3z)^2$?

6) Simplify: $\frac{(10x^2y^3)(2x^4y)^3}{(5x^2y^2)(8xy^2)}$

7) Simplify: $\frac{25x^2y^3z^8 + 20x^2yz^3 - 5xyz}{5xyz}$

8) Simplify: $\frac{5x^6y^9}{15xy^{11}}$

9) Simplify: $\frac{a^{-3}b^7c^{-4}}{b^{-5}c^{-11}d^{-8}}$