

Name: _____

CC Algebra – Exponents and Polynomials

Part 1 – Simplify each expression

| | | | |
|---------------------------|-------------------------|--------------------------|----------------------------|
| $\frac{12x^7y^4}{-6x^2y}$ | $(2xy^2)(5x^4y^4)$ | $(4ab^4)^3(ab)^2$ | $(3x)^{-2}$ |
| $72a^{-3}b^{-10}$ | $\frac{42x^4y}{-7xy^5}$ | $(2x)(3x^5y)$ | $(3f^2g^6h^3)^4$ |
| $(-9x^3y^4)(-6x^3y^2)$ | 4^{-3} | $\frac{-25x^4y^3}{-5xy}$ | $(-5x^4y^3)(2x^3y^3)$ |
| $(3x^3y)(-4xy^2)$ | $(4d^5e^6f^2)^2$ | $(2m^2)^{-4}$ | $\frac{32x^6y^5}{8x^5y^7}$ |