

Name: _____

Date: _____

5.4 – Dividing Polynomials Assignment

1) Simplify

a) $\frac{6x^2}{2x}$

b) $\frac{-12y^5}{4y^3}$

c) $\frac{-21a^7}{-7a}$

d) $\frac{18a^3b}{-9a^3}$

2) Simplify

a) $\frac{10m^5n^6}{5m^2n^3}$

b) $\frac{-40ab^4c^9}{-20ab^4c}$

c) $-\frac{15x^8y^5}{10x^7y}$

d) $\frac{16p^4r^3}{6p^4r^3}$

3) Simplify

a) $\frac{10x^4y}{5x^6y^2}$

b) $\frac{-20a^2b^3}{5a^5b^2}$

c) $\frac{6a^{-3}b^{-2}c^{-1}}{-3a^6b^{-2}c^{-3}}$

d) $\frac{-16x^{-1}z^2}{-8xz}$