Math 9 - Unit 2: Algebra 1 Name_____

Homework #5 - Dividing Monomials

Date_____ 5T____

Simplify by dividing.

1) $\frac{2r^4}{r^4}$

2) $\frac{3v^4}{v^3}$

3) $\frac{12x^3}{4x}$

4) $\frac{5xy^3}{xy^2}$

5) $\frac{12x^2y^5}{6xy^2}$

6) $\frac{15h^3j^{10}k^{12}}{10h^2j^6k^7}$

7) $\frac{3m^3p^8q^4}{8m^7p^9q^7}$

8) $\frac{7p^5q^9}{2m^3p^5q^7}$

Divide the monomial into each term of the polynomial.

9) $\frac{-8n^3 + 18n^2}{2n^2}$

10) $\frac{15x^3y^4 + 50xy}{5xy}$

11) $\dfrac{8k^4 + 32k^3 - 72k^2}{8k}$

12) $\dfrac{-18m^2n - 6mn^2 - 20m}{-2m}$

13) $\dfrac{54h^6j^2 - 63h^4j^3 + 72h^3j^4}{9h^3j^2}$

14) $\dfrac{-18x^2 - 90x^3 - 54x^5 - 27x^6}{-9x^2}$

15) $\dfrac{30m^3n^7 - 30m^6n^4 + 27m^3n^6 - 15m^4n^4}{3m^3n^4}$

16) $\dfrac{10x^2y^2z^5 - 10x^2y^3z^2}{10x^2y^2z^2}$

17) $\dfrac{60n^2 + 18n - 24}{6}$

18) $\dfrac{3b^4c^9a - 15b^{10}c^2a + 3b^4c^5a^2 + 24b^4c^3}{3b^4c^2}$